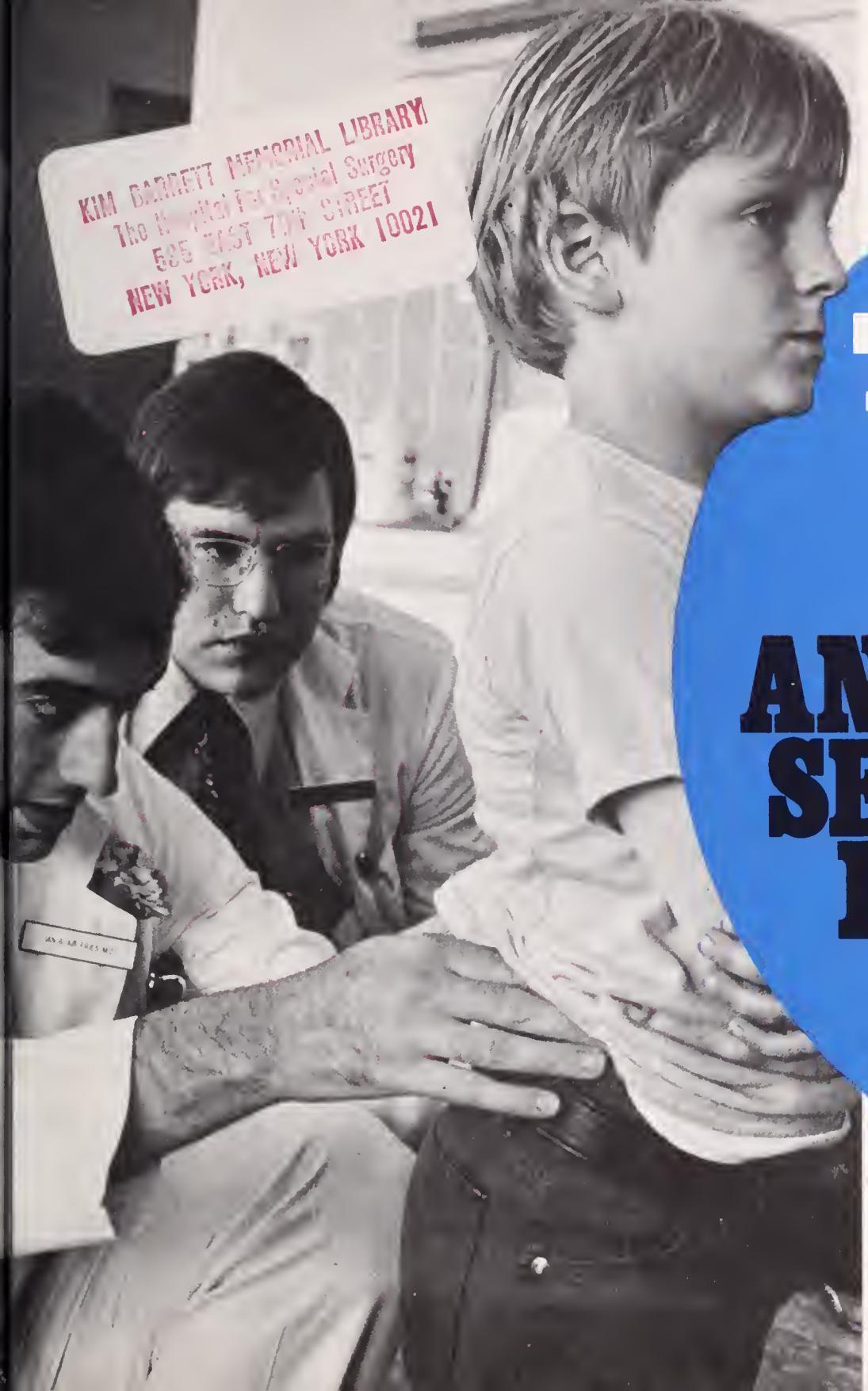


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THE HOSPITAL FOR SPECIAL SURGERY

ANNUAL REPORT & SECOND CENTURY DEVELOPMENT PROGRAM



Contents 1971 Annual Report

Officers Page 1
Message From The President Page 2
Report From The Director Page 3
Report Of The Surgeon-In-Chief Page 4
Report From The Director Of Research Page 5
The Challenge Page 6
The Response Page 7
The Progress Page 8
Today: The Challenge Page 10
Today: The Response Page 11
In Greater Detail Page 13
The Clinical Hospital Page 15
Research Page 17
Teaching Page 19
The Need For Expansion Page 20
The Plans: Operating Room Suite Page 21
 Doctors' Offices Page 21
 Clinical Laboratories Page 21
 Out-Patient Facilities Page 21
 Conclusion Page 21
Staff Publications Pages 22-28
Alumni Teaching Affiliations Page 29
Gifts And Endowed Beds Pages 30-31
Officers Of The Society: 1864-1971 Pages 32-34
Administration Page 35
Medical Board Page 36
Professional Staff Pages 38-41
The Hospital For Special Surgery Volunteers: 1971 Page 42
Volunteer Department Statistics: 1971 Page 43
Women's Auxiliary Page 44
Comparative Statistics Page 45
Accountants' Opinion Page 46
Condensed Comparative Statement Of Income & Expense Page 47
Comparative Balance Sheet Pages 48-49
Notes To Financial Statements Page 50

Officers and Members

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Marshall Rawle
Charles H. Thieriot

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Mrs. John H. Reynolds

E. Sheldon Stewart

Charles J. Symington

B. A. Tompkins***

Reginald T. Townsend

*Elected 4/72

**Elected 5/72

***deceased

A Message From The President



Philip Bastedo

The Hospital for Special Surgery is a special hospital in the true sense of the word. Located in New York City and affiliated with the New York Hospital-Cornell University Medical Center, it provides orthopedic and rheumatic disease services, but has complete financial independence, autonomy, and ownership of its hospital and research buildings.

Our constituency is world-wide both in terms of the patients we serve and the physicians we train. We are at the forefront of research both into the basic causes of orthopedic and rheumatic diseases and the best and most efficient means of treatment.

We are continually growing and our realm of possibility is continually expanding. Every activity asks for more space and more facilities. It has become apparent that the

facilities of the Hospital must be expanded so that it can continue to discharge the responsibilities it has accepted.

Early in 1966, the late Dr. Philip D. Wilson, Sr., our former Surgeon-in-Chief who had watched the Hospital develop for more than 30 years, stated the case in his usual forthright manner.

"When we built this Hospital ten years ago, we thought it was the finest thing that could be built. We used all the best judgments and opinions that we could get. And it was. But the progress of science is so fast that it is almost impossible to keep up with it. We have not only the scientific explosion but the population explosion as well, which has altered the demands of the population and altered the patterns of disease. If you've been around the Hospital, you've seen how it is . . . how out-moded . . . how deficient we are and we've got to remedy

these deficiencies."

The case is most strikingly stated by the comparative statistics of 1956, the first full year of operation in the present building and 1971.

	1956	1971
Total Patient Days	48,786	63,591
Admissions	2,195	3,515
Laboratory Examinations	46,255	263,942
Operations	1,302	2,714
X-rays	68,030	104,395

These services have increased without any accompanying expansion of the physical plant or patient beds.

To enable us to meet the challenge presented to us and to best continue to serve our constituents, we have initiated the Second Century Development Program which will enable us to expand our facilities in these most essential areas: operating room suite, laboratory space, doctors' offices, and out-patient facilities.

Report From The Director



T. Gordon Young

At the end of 1971, a year of general economic uncertainty, the Hospital was in a relatively strong financial situation. We were able to hold our operating loss to \$425,780, approximately the same as 1970 even though our depreciation expenses increased as a result of new construction and equipment.

We have been pursuing a policy of 'improved productivity'—meaning more efficient operations and the effective use of fewer people. Approximately 70% of our operating expenses go for labor and consequently, the number of employees was down from 750 at the end of 1970 to 726 at the end of 1971. However, not one person lost his job as a result of our pulling in our purse strings. For instance, when the Hospital decided to initiate a staggered team concept for its patient food service operation, the number of em-

ployees required in Food Service was reduced by twenty. Each employee received a job of comparable or more senior position at the Hospital without loss of any benefits.

Other employee services and benefits were expanded in 1971. Job openings are now posted on a Bulletin Board enabling employees to tell their friends about openings at the Hospital and to take advantage of possible transfers or promotions. We became affiliated with the Consumer Buying Group offering employees considerable savings on large purchases and have continued our employee tuition reimbursement plan expanding it to include full tuition to children of eligible professional and administrative staff attending college.

As we grow and increase our services, so must our physical plant expand to accommodate our needs. Many of our facilities are sorely taxed and major expansion is needed. Through careful utilization and re-

adjustment of space, we were able to complete a new home for the School of Practical Nursing in the Guggenheim Building and allow for additional space for the clinical laboratory and enlargement of the X-ray Department.

Most needed is a modernized and enlarged operating room area. A first step has been taken with the installation this year of a clean air system, 'Envirco' in one of the OR's. Insuring maximum asepsis, it is being used primarily for total hip replacements of which an average of ten a week are being performed.

All in all, 1971 was a good year for the Hospital. Yet, we must not be afraid to look to the future and examine what changes will be necessary to meet our future needs and responsibilities. We look forward to a year where old goals are strengthened and new challenges defined and met.

Report From The Surgeon-In-Chief



Dr. Robert Lee Patterson, Jr.

In rendering this, my last report as Surgeon-in-Chief, I do so with great appreciation to all members of the Professional and Administrative staffs who in my tenure of over nine years have been cooperative, helpful, and devoted not only to me personally but to our fine institution. It is my sincere hope that the new Surgeon-in-Chief, Dr. Philip D. Wilson, Jr. will be given the same loyalty.

There were several important events in 1971 that we are pleased to report. In December, Drs. John N. Insall, Chitranjan S. Ranawat and Joseph I. Hoffman, Jr. performed the first implantation of a duo-condylar knee prosthesis designed and developed in the Bioengineering Laboratory by Drs. Peter

Walker and Joseph Hajak.

A new Department of Rehabilitation was formed in September with Dr. Leon Root as Medical Director. This new department combines into one group Cerebral Palsy, Occupational Therapy, Physical Therapy, and Recreational Therapy—all of which had previously operated as several departments.

A Department of Sports Medicine was established on October 1 with Dr. John Marshall as Director. Dr. Peter Tsairis has become Director of Neurological Services and Dr. Leon Kutner, Attending Epidemiologist in the Department of Medicine.

Under the direction of Dr. Lawrence Blau, studies were carried out on programming for computer services. This service is now being utilized in the Operating Room and it is hoped that it can be eventually used by all branches of the Hospital.

On April 5, we established a regular Monday evening general orthopedic clinic, under the supervision of Dr. Lee Ramsay Straub. This was done in recognition of the fact that many people have difficulty attending clinics during the day because of work and other obligations. The Hospital felt that this was a service that should be provided to its neighboring community.

Again, during the year, the Hospital had many visitors from all over the United States as well as twenty-one foreign countries. The activities of the Professional staff in local, national and international orthopedic affairs continued to be excellent and are one of the reasons why the Hospital for Special Surgery is known everywhere as one of the outstanding institutions in the fields of orthopedics and rheumatic diseases throughout the world.

Report From The Director Of Research



Robert C. Mellors, M.D., Ph.D.

In 1971, we were fortunate again to receive contributions and grants from foundations, government sources, and friends of the Hospital which enabled us to continue our programs of active research in four major areas: Orthopedics, Rheumatic Diseases, Ultrastructural Biochemistry and Experimental Pathology.

Our professional staff continued to com-

bine scientific pursuit with teaching activities at the undergraduate, graduate and post-graduate levels. At the same time, our link with the clinical side of the Hospital enabled us to pose new questions and move closer towards the solution of problems already under study.

Our investigations ranged from the fundamental—such as a study of the structure of the mineral in bone at the molecular level in order to understand the mechanism by

which bone is formed—to the specific solution of clinically oriented problems, such as the development of artificial joints for the rehabilitation of patients with crippling joint diseases.

As previously, cooperation with other institutions has enabled us both to expand our investigation and share our discovery. In addition, the work of our scientists has been widely published and disseminated throughout the United States and other countries.

The Challenge

"...the crippled need not stay crippled."

More than a century ago, torn by the Civil War, this country faced another inexorable foe, which had plagued mankind since the dawn of history . . . crippling diseases. Cripples of all ages hobbled through New York streets, flaunting their deformities to arouse sympathy as they begged for alms. Thousands of children, crippled by bone tuberculosis, congenital deformities and polio, went unaided.



CHALLENGE

The Response

In 1863, a New York physician, Dr. James Knight with the help of twenty of New York's leading citizens, formed the New York Society for the Relief of the Ruptured and Crippled and opened the first orthopedic hospital in the United States in his home at 97 Second Avenue. Children were accepted as in-patients and adults were treated in the clinics. Dr. Knight treated the lame, crippled and deformed with braces, exercise, static electricity and prayer. Because anesthetics and anti-septics were so undeveloped, a knife was never used in his 24 years as Surgeon-in-Chief except for the division of tendons in treating club feet. The risks were too great—the death rate for amputations alone was 50%—and when Dr. Virgil Gibney, Dr. Knight's assistant, published a book in 1884 advocating surgery in the treatment of tuberculosis of the hip, his resignation was requested. Three years later however, Dr. Gibney was recalled as Surgeon-in-Chief, a post he filled with great distinction for 36 years. Further advances enabled Dr. Gibney to make the Hospital an active surgical institution, not merely a shelter for cripples.



MD RESPONSE

The Progress

The advances have been remarkable. In 1900, perhaps 80% of all cases were tuberculosis of the bones or joints. Polio, osteomyelitis and rickets were common. Over the years, medical research has made dramatic advances in anesthetics, drugs, and antiseptics, permitting the orthopedists to undertake more and more without undue danger. Today these crippling diseases have been virtually eradicated.



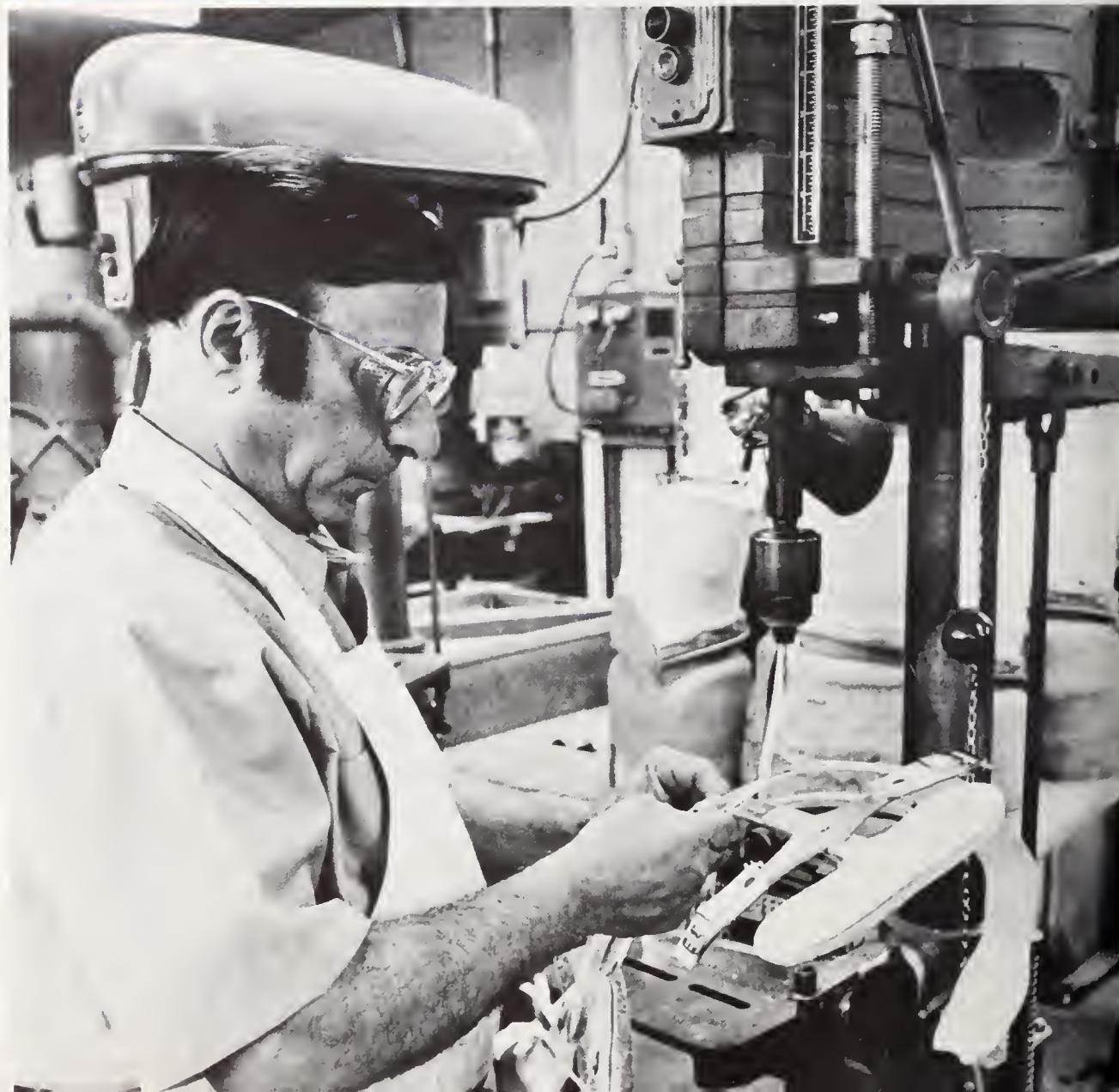
PROGRESS



TODAY:

The Challenge

What then are the challenges to the Hospital for Special Surgery today? Primarily the orthopedic problems of congenital malformation and cerebral palsy in childhood; neoplastic diseases including bone cancer; the results of accidents; faulty metabolic processes resulting in the weakening of bone structure which in turn contributes to rheumatic diseases some form of which seventeen million American adults suffer.



TODAY:

The Response

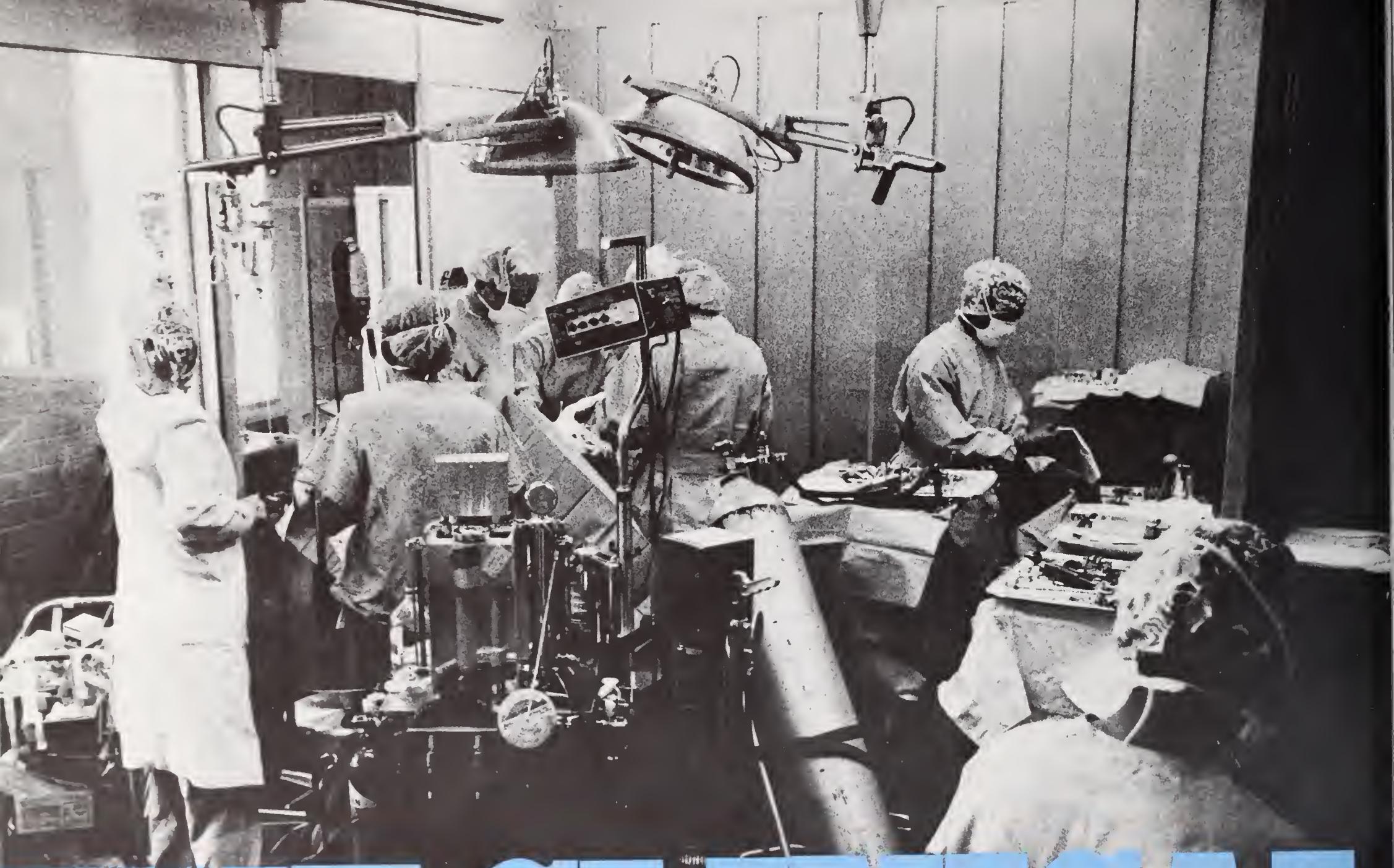
The Hospital for Special Surgery is one of the foremost institutions in the world in the fields of orthopedics and rheumatic diseases. From the outset, it has been first of all an organized group of people proudly devoting their skills and energies to its founder's credo . . . "the crippled need not stay crippled." It is a 200 bed non-profit voluntary hospital dedicated to the TREATMENT of those who are suffering from crippling and rheumatic diseases. It is a RESEARCH organization striving to discover why these victims of orthopedic and rheumatic diseases fell ill in the first place and what can be done to save others from similar afflictions. It is a TEACHING hospital, academically integrated with the Cornell University Medical College.





IN GREATER DETAIL

The many activities of the Hospital for Special Surgery, then, fall into these three interrelated divisions. The explosion in scientific knowledge growing out of World War II emphasized that for adequate research and training facilities, a specialized orthopedic hospital needed close association with a large medical center. In 1949, the Hospital became affiliated with the New York Hospital-Cornell University Medical Center. It provides the orthopedic and rheumatic disease services, but has complete financial independence and autonomy and ownership of its hospital and research buildings.



ФОТОСЕССИЯ

As part of the affiliation, members of the Hospital's medical staff are also members of the New York Hospital staff and vice versa. The Hospital for Special Surgery provides the Orthopedic and Rheumatic Disease Services of the Medical Center. One of the first hospitals to establish a department specializing in rheumatic diseases, its Comprehensive Arthritis Program is highly respected. Patients are provided with the combined skills of orthopedic surgeons, rheumatologists, social workers, psychiatrists, physical medicine and occupational therapy.

The Hospital shares equally in the Fracture Service and its surgeons conduct the Newborn Congenital Dislocated Hip Detection Program whereby every newborn baby in New York Hospital is examined.

The Hospital for Special Surgery has pioneered in the now almost routine total hip replacement, an operation in which an artificial hip socket replaces diseased bone and is one of the few institutions in the world currently replacing diseased knee joints with

a knee prosthesis—the duo-conyler model developed in the Hospital's Bioengineering Laboratory.

Its broad sphere as an orthopedic hospital is clearly shown by its clinics, each of which is under the direction of a specialized orthopedist or rheumatologist. Most of the patients are referred to the Hospital to benefit from this specialization. The clinics include:

- Amputee
- Back
- Birth Defects
- Bone Tumor
- Cerebral Palsy
- Chest Deformity
- Club Foot
- Comprehensive Arthritis
- Dermatology
- Dysautonomia
- General Orthopedic Evening
- Hand and Upper Extremity
- Hemophilia
- Hip
- Knee
- Metabolic Bone Diseases

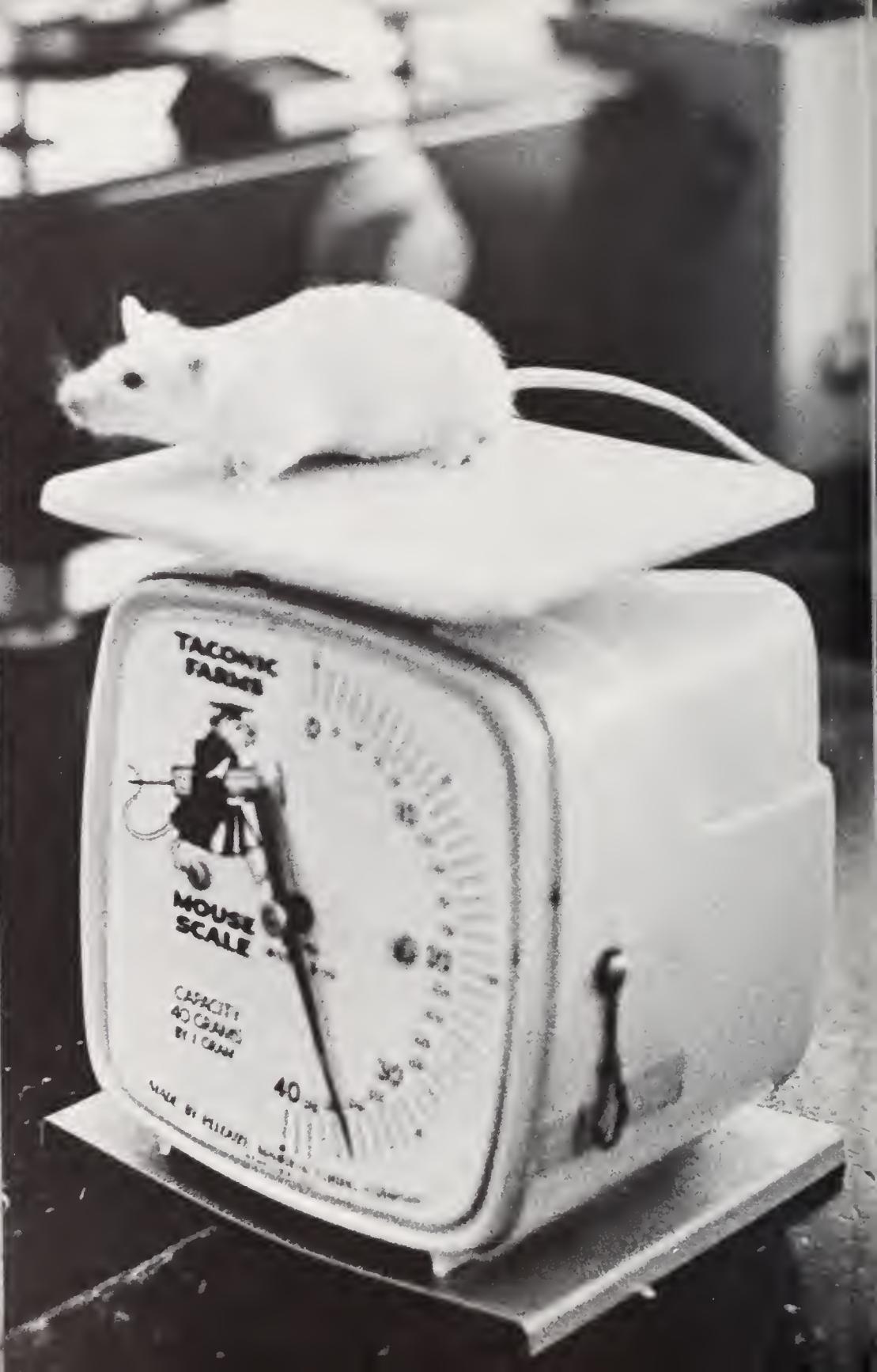
Neuro-Orthopedic
Osteogenesis-Imperfecta
Rheumatic Disease
Scoliosis
Sports Medicine

Outside its walls, the Hospital provides services for several other institutions. Hospital residents spend time at Memorial Hospital participating in clinics, making rounds, and assisting in surgery.

The Hospital for Special Surgery is responsible for the orthopedic section of the Bronx Veterans Administration Hospital and maintains a supervising function at the Cerebral Palsy Center of Nassau County, a day-care facility with an active case load of 1,000 children and adults.

The Hospital staff provides medical direction for several of the HC20 Classes—combined educational and medical services for children with severe orthopedic handicaps administered by the New York City Board of Education in over 20 New York City public schools.

HOSPITAL



Nowhere is there more effort and dedication to improving the treatment and determining the causes of crippling diseases than at the Hospital for Special Surgery.

Based upon the realization that the medical profession must learn more of the causes of crippling diseases and ultimately discover means of prevention, a comprehensive program of fundamental research was soon established after the inception of the Hospital. Although as much space was provided in the existing Hospital for research as practical, it was also recognized that a greatly expanded program would require its own facilities as well as its own financing. On November 17, 1960, the Alfred H. Caspary Research Building was dedicated immediately to the north of the Hospital to which it is connected by a bridge... the evergrowing link between basic research and clinical medicine.

Basic long range objectives, defined by Dr. Robert C. Mellors, who became Director of Research in 1969, include:

1. Find the cause of rheumatoid arthritis
2. Elucidate the nature of degenerate joint disease
3. Prevent crippling disorders of childhood
4. Forestall fractures in the elderly
5. Investigate the cause and nature of neoplastic diseases including bone cancer.

Currently, over eleven major research projects are in progress. They range from the most basic research into human tissue antigens to the practical development of artificial joints. Over fifty scientists work solely in the Research Department of the Hospital.

RESEARCH



Academically, the Hospital for Special Surgery is integrated with the Cornell University Medical College. Most members of its medical staff have faculty appointments at Cornell. Through teaching, the influence of the Hospital in the field of orthopedics and rheumatic diseases is world-wide. Over 600 alumni, former residents and fellows are practicing in 34 states and 82 countries. Of these, nearly half are teaching in 77 medical schools, 55 in the United States and 22 abroad.

The Hospital staff teaches Cornell Medical students at all levels and in addition, trains 24 residents and eight resident fellows, many of the latter coming from foreign coun-

tries for one or two years to become expert in some particular phase of orthopedics. The 24 orthopedic residencies at the Hospital are among the most sought after in the country with an average of 12 applicants for each place. The program covers three years: two at the Hospital, four months at New York Hospital in the Fracture Service, eight months at the Bronx Veterans Administration Hospital, two months at Memorial Hospital on the Bone Tumor Service, and the remainder devoted to elective periods for special interest.

The Hospital also maintains a School of Practical Nursing which has so far graduated more than 800 men and women.

TEACHING

THE NEED FOR EXPANSION

After careful study, it becomes apparent that the facilities of the Hospital must be expanded so that it can continue to discharge the responsibilities it has accepted.

Since moving into our present building in 1955, the number of patients cared for each year, both as in-patients and out-patients, has steadily increased. Not only have basic services increased accordingly, but new and more complicated procedures and treatments have put existing facilities under great pressure and made new and expanded facilities a necessity. Quite simply: The Hospital for Special Surgery needs more space and a modernization of existing facilities.

Operating Room Suite

Not only have the number of operations performed each year nearly doubled, but they are more complicated and require longer periods of time—up to seven hours—pre-empting facilities for which others must wait. At present, the Operating Suite consists of three standard Operating Rooms and a smaller room suitable for hand or foot surgery. Even with a two shift, six day operation, waiting time for elective procedures is often over two months. It is planned to have five full-sized rooms, each with anesthesia induction and separate scrubbing facilities, preparation and pre-induction space, much improved flow of conditioned dust-free air, and a recovery room of nine beds.

Doctors' Offices

In 1955, when the new Hospital opened, doctors were accustomed to maintain offices removed from the Hospital. Now the trend has reversed for a number of reasons, including 'traffic congestion', a sheer waste of the doctor's time, and the spread of the "university system" whereby a doctor spends all his time at his Hospital in treatment, research, or teaching.

In 1954 only four orthopedists had offices at the Hospital whereas today, over fifteen orthopedists and rheumatologists devote all or a major portion of their time to their work at the Hospital. Naturally, adequate space was not originally provided. The Hospital will benefit from increased space by attracting more doctors and allowing for more efficient use of time.

increases and the number of people attending these clinics grows correspondingly, the Margaret M. Caspary Clinic must also expand. Congestion has been pushed to the limit and both efficiency and patient comfort make expansion crucial.

Conclusion

To bring the Hospital up to date, the Hospital for Special Surgery has initiated the Second Century Development Program. The plans for added facilities have been developed and priorities assigned only after the most diligent and painstaking studies, detailed architectural investigations and many conferences among the many people representing all the activities involved in such a major undertaking.

This urgently needed expansion of the Hospital is estimated to cost \$8,500,000. It is the responsibility of the Hospital for Special Surgery to provide the highest standard and the most comprehensive patient care possible, to discover and develop better techniques and prevention of crippling disabilities, and to teach others to apply these techniques.

Out Patient Facilities

The Hospital for Special Surgery has always had an enormous out-patient population. As the number of out-patient clinics



Staff Publications

AGNELLO, V., KOFFLER, D., EISENBERG, J. W., WINCHESTER, R. J. and KUNKEL, H. G.: Clq precipitins in the sera of patients with systemic lupus erythematosus and other hypocomplementemic states: Characterization of high and low molecular weight types. *J. Exp. Med.* 134:228s-241s.

ARLEN, M., HIGINBOTHAM, N. L., HUVOS, A. G., MARCOVE, R. C., MILLER T., and SHAH, I. C.: Radiation-Induced sarcoma of bone. *Cancer* 28: 1087-1099, Nov.

BEATTIE, E. J., JR.: Concepts of cancer control at Memorial Hospital: The multidisciplinary approach. *Memorial Sloan Kettering Cancer Cen. Clin. Bull.* 1:5-6.

BEATTIE, E. J., JR.: Head and neck—Therapeutic attitudes, cooperators and competitors. *J.A.M.A.* 215:459-460, Jan.

BEATTIE, E. J., JR.: See Cahan, W. G. and Beattie, E. J., Jr.

BEATTIE, E. J., JR.: See Exelby, P. R., El-Domeiri, A., Huvos, A. G., and Beattie, E. J., Jr.

BEATTIE, E. J., JR.: See Fortner, J. G., Barrie, J., Beattie, E. J. Jr., Bragg, D. G., Huvos, A. G. and Murphy, M.

BEATTIE, E. J., JR.: See Fortner, J. G., Beattie, E. J., Jr., Bergland, R. M., Howland, W. S., Huvos, A. G., Posner, J. B., Shiu, M. H., Watson, R. C., Brown, S. I., Hoff, J. T., Lillehei, W. C., and Whitsell, J. C.

BEATTIE, E. J., JR.: See Fortner, J. G., Beattie, E. J., Jr., Covington, E. E., De Freitas, G., Golbey, R., Huvos, A. G., Leaming, R., McPeak, C. J., Sherlock, P., and Watson, R. C.

BEATTIE, E. J., JR.: See Fortner, J. G. Beattie, E. J. Jr., Deddish, M. R., Hertz, R. E. L., Huvos, A. G., Ryan, R. M., and Turnbull, A.

BEATTIE, E. J., JR.: See Fortner, J. G., Beattie, E. J., Jr., Gradstald, H. Huvos, A. G., Murphy, L. M. Packert, R. C., and Sharma, T.

BEATTIE, E. J., JR.: See Fortner, J. G., Caron, A. S., Beattie, E. J., Jr., Foote, F. W., Frazell, E. L., Huvos, A. G., Leeper, R. D., and Packert, R. C.

BEATTIE, E. J., JR.: See Fortner, J. G., Beattie, E. J., Jr., Casey, M. J., Clark, D. G. C., Ryan, G. M., Lewis, J. L., and Stearns, M. W.

BEATTIE, E. J., JR.: See Fortner, J. G., Beattie, E. J., Jr., Whitmore, W. F., LaMonte, C. S., Ryan, G. M., Watson, R. C., Huvos, A. G. and Ray, B.

BEATTIE, E. J., JR.: See Fortner, J. G., Shiu, M. H., Balner, H., Wilson, C. B., Sichuk, G., Kawano, N., Holmes, J. T., and Beattie, E. J., Jr.

BEATTIE, E. J., JR.: See Hilaris, B. S., Luomanen, R. K., and Beattie, E. J., Jr.

BEATTIE, E. J., JR.: See Knapper, W. H. Beattie, E. J., JR., Lewis, J. L., Huvos, A. G., Watson, R. C., and Brannan, C. D.

BEATTIE, E. J. JR.: See Martini, N., Hajdu, S., and Beattie, E. J., Jr.

BEATTIE, E. J., JR.: See Martini, N., Huvos, A. G., Mike, V., Marcove, R. C., and Beattie, E. J., Jr.

BEATTIE, E. J., JR.: See Martini, N., Goodner, J. T., D'Angio, G. J., and Beattie, E. J., Jr.

BEATTIE, E. J., JR.: See Pinsky, C. M., Oettgen, H. F., El-Domeiri, A., Old, L. J., Beattie, E. J., Jr., and Burchenal, J. H.

BIENENSTOCK, H., DAVIDSON, S., and FORSCHNER, T. T.: First dorsal interosseous muscle atrophy: Clinical sign of impaired glucose metabolism. *New York State J. Med.* 71:851.

BLAU, L. M.: Standard thyroid phantom as seen through the matrix inversion method. *J. Nucl. Med.* 12:6:416, June.

BLAU, L. M.: Comparison of high-energy gamma-ray imaging of the pho/gamma III, the pho/gamma HP, the scanning autofluoroscope and the rectilinear scanner. *J. Nucl. Med.*, 12:415.

BODANSKY, O.: Clinical aspects of leucine aminopeptidase. *In Methods in Enzymology*, 17:875-884. H. Tabor and C. W. Tabor (eds.) Academic Press, New York.

BODANSKY, O.: Clinical aspects of ornithine carbamyl transferase. *In Methods in Enzymology*, 17:885-890, 1971. H. Tabor and C. W. Tabor (eds.) Academic Press, New York.

BODANSKY, O. and LATNER, A. L. eds.: *Advances in Clinical Chemistry*. Vol. 14:500. Academic Press, New York.

BODANSKY, O.: See Sweetman, L. and Bodansky, O.

BULLOUGH, P. G.: Massive osteolysis. *New York State J. Med.*, 71: 2267-2278.

BULLOUGH, P. G., GOLDBERG, V. M.: Multicentric origin of adamantina of the tibia. A case report. *Rev. Hosp. Spec. Surg.* 1:71-74.

BULLOUGH, P. G.: See Marshall, J. L. and Bullough, P.G.

BULLOUGH, P. G.: See Pavon, S. J., Bullough, P. G., and Marcove, R. C.

CAHAN, W. G. and BEATTIE, E. J., JR.: Lymph node dissection in lung cancer. *Memorial Sloan Kettering Cancer Cen. Clin. Bull.* 1: 123-126.

CAMPBELL, R. D.: The problem of subtrochanteric fractures of the femur. *J. Trauma*, 2:719-720, Aug.

CAPRA, J. D., WINCHESTER, R. J., and KUNKEL, H. G.: Hypergamma-globulinemic purpura. Studies on the unusual anti-y-globulins characteristic of the sera of these patients. *Medicine*, 50:125-138.

CHRISTIAN, C. L., PHILLIPS, P. E., and WILLIAMS, R. C., JR.: *Proceedings of the Conference on Atypical Virus Infections—Possible Relevance to Animal Models and Rheumatic Disease*. The Arthritis Foundation.

CHRISTIAN, C. L.: See Estes, D. and Christian, C. L.

CHRISTIAN, C. L.: See Gocke, D., Hsu, K., Morgan, C., Bombardieri, S., Lockshin, M., and Christian, C. L.

CHRISTIAN, C. L.: See Hughes, G. R. V., Cohen, S. A., Lightfoot, R. W., JR., Meltzer, J. I., and Christian, C. L.

CHRISTIAN, C. L.: See Cohen, S. A., Hughes, G. R. V., Noel, G. L., and Christian, C. L.

CHRISTIAN, C. L.: See Phillips, P. E., and Christian, C. L.

CHRISTIAN, C. L.: See Phillips, P. E., Ellner, P. D., and Christian, C. L.

COHEN, S. A., HUGHES, G. R. V., NOEL, G. L., and CHRISTIAN, C. L.: Character of anti-DNA antibodies in systemic lupus erythematosus. *Clin. and Exp. Immunol.* 8:551, April.

COOPER, P. (ed) *Craft of Surgery*, 2nd edition, 3 Vols., Little, Brown, and Co., Boston, Mass., March.

COOPER, S. and LANCE, E. M.: A serological method for detecting the surface antigens of epidermal cells. *Transplan.* 11:109, Jan.

CRUTCHLOW, W. P. and DAVID, D. S.: Multiple skeletal complications in a case of chronic renal failure treated by kidney hemotransplantation. *Amer. J. Med.* 50:390-394.

CRUTCHLOW, W. P. and DAVID, D. S.: Skeletal complications of kidney disease. *Clin. Orthop. and Rel. Res.* 74:209-220.

EATON, R. G.: Joint injuries in the hand. C. C. Thomas, Publ. Springfield, III.

EDELEN, J., LOCKSHIN, M., LEROY, E.: Gonococcal arthritis in two patients with active lupus erythematosus. *Arthr. and Rheum.* 14:557.

EICHENHOLTZ, S. N.: Os intermetatarsale I. A case report. *Rev. Hosp. Spec. Surg.* 1:95-96.

ESTES, D. and CHRISTIAN, C. L.: The natural history of systemic lupus erythematosus by prospective analysis. *Medicine*, March.

EXELBY, P. R., EL-DOMEIRI, A., HUVOS, A. G., and BEATTIE, E. J., JR.: Primary malignant tumors of the liver in children. *J. Pediat. Surg.*, 6:272-276, June.

FIGAROLA, F.: See Lance, E. M., Inglis, A. E., Figarola, F., and Veith, F. J.

FORTNER, J. G., BARRIE, J., BEATTIE, E. J., JR., BRAGG, D. G., HUVOS, A. G., and MURPHY, M.: L-Asparaginase therapy in leukemia. *Postgrad Med.* 48:265-268, Sept.

FORTNER, J. G., BEATTIE, E. J., JR., BERGLAND, R. M., HOWLAND, W. S., HUVOS, A. G., POSNER, J. B., SHIU, M. H., WATSON, R. C., BROWN, S. I., HOFF, J. T., LILLEHEI, W. C., and WHITSELL J. C.: Multiple organ transplantation from a single donor. *Postgrad. Med.* 46:209-215, Sept.

FORTNER, J. G., BEATTIE, E. J., JR., LEWIS, J. L., and STEARNS, M. W.: Intestinal fistula after pelvic irradiation and radical surgery. *Postgrad. Med.* 50: 168-171, July.

FORTNER, J. G., BEATTIE, E. J., JR., GRABSTALD, H., HUVOS, A. G., MURPHY, L. M., PACKERT, R. C. and SHARMA, T.: Treatment for embryonal carcinoma when primary site is unknown. *Postgrad. Med.* 49:215-217, Jan.

FORTNER, J. G., BEATTIE, E. J., JR., WHITMORE, W. F., LAMONTE, C. S., RYAN, G. M., WATSON, R. C., HUVOS, A. G., and RAY B.: Multidisciplinary challenge of pheochromocytoma. *Postgrad. Med.* 50:217-222, Oct.

FORTNER, J. G., CARON, A. S., BEATTIE, E. J., JR., FOOTE, F. W., FRAZELL, E. L., HUVOS, A. G., LEEPER, R. D. and PACKERT, R. C.: Lymphocytic thyroiditis. Postgrad. Med. 49:235-237, May.

FORTNER, J. G., SHIU, M. H., BALNER, H., WILSON, C. B., SICHUK, G., KAWANO, N., HOLMES, J. T., and BEATTIE, E. J., JR.: Observation on prolonged immune suppression for human liver homografts. Transplant. 3:383-386, March.

FREIBERGER, R. H.: See Harrison, M. O., Freiberger, R. H., and Ranawat, C. S.

FREIBERGER, R. H.: See Salvati, E. A., Frieberger, R. H., and Wilson, P. D., Jr.

GILLETTE, R. W. and LANCE, E. M.: Kinetic studies of macrophages homograft response. Transplant. 11:95, Jan.

GIUSTRA, P. E., WATSON, R. C., and SHULMAN, H.: Arteriographic findings in the various stages of renal tuberculosis. Radiology 100:597-602, Sept.

GOCKE, D., HSU, K., MORGAN, C., BOMBARDIERI, S., LOCKSHIN, M., and CHRISTIAN, C. L.: Vasculitis in association with Australia antigen. J. Exp. Med. 134:330s.

GOEI, T.: See Vasicka, A., Robertazzi, R., Raji, M., Scheffs, J., Kosmowski, J., and Goei, T.

GOLDBERG, V. M.: See Bullough, P. G., and Goldberg, V. M.

GRANDA, J. L. and POSNER, A. S.: Distribution of three hydrolases in the epiphyseal plate. Clin. Orthop. and Rel. Res. 74:269, Jan.

GRANDA, J. L., RANAWAT, C. S. and FLATT, A. E.: Levels of three hydrolases in rheumatoid and regenerated synovium. Arthr. and Rheum. 14:223, Mar., Apr.

GRANDA, J. L.: See Lotke, P. A. and Granda, J. L.

GRANDA, J. L.: See Ranawat, C. S., Straub, L. R., Freyberg, R., Granda, J. L. and Rivelis, M.

GUSTAFSSON, P. O.: See Ljunggren, G., Olsson, S. E., and Gustafsson, P. O.

HANDLER-BERNICH, E.: See Pullman, J., Blumenthal, N., and Handler-Bernich, E.

HARRISON, M. O., CONTE, P. J., and HEITZMAN, E. R.: Radiological detection of clinically occult cardiac failure following myocardial infarction. Brit. J. Radiol. 44:265-272, April.

HARRISON, M. O., FREIBERGER, R. H., RANAWAT, C. S.: Arthrography of the rheumatoid wrist joint. Am. J. Roent., Rad. Therapy and Nucl. Med. 112:480-486, July.

HELPERN, M.: The immediate screening of deaths and the responsibility of official pathologists. Bull. N. Y. Acad. Med. 47:776-791, July.

HILARIS, B. S., LUOMANEN, R. K., and BEATTIE, E. J., JR.: Integrated irradiation and surgery in the treatment of apical lung cancer. Cancer, 27:1369-1373, June.

HUGHES, G. R. V., COHEN, S. A., LIGHTFOOT, R. W., JR., MELTZER, J. I., and CHRISTIAN, C. L.: The release of DNA into serum and synovial fluid. Arthr. and Rheum. 14:259.

INGLIS, A. E.: Fragmentation of the intellectual community. Rev. Hosp. Spec. Surg. 1:7-8.

INGLIS, A. E.: Lysergic acid diethylamide (LSD) and gangrene of the hand. Rev. Hosp. Spec. Surg. 1:22-26.

INGLIS, A. E.: Traumatic digital amputations of the thumb. Bull. Hosp. Joint Dis., 32:4-9, April.

INGLIS, A. E. and JACOBS, B.: Arthrodesis of major joints in *The Craft of Surgery* 2nd Ed. Vol. III pp. 1940-1954. Cooper, P. Ed. Boston, Little, Brown and Co.

INGLIS, A. E., RANAWAT, C. S., and STRAUB, L. R.: Synovectomy and debridgement of the elbow in rheumatoid arthritis. J. Bone and Joint Surg. 53-A:652-662, June.

INGLIS, A. E., RANAWAT, C. S., and STRAUB, L. R.: Silastic prosthetic implants in the metacarpophalangeal joint of the hand. Rev. Hosp. Spec. Surg., 1:80-87.

INGLIS, A. E.: See Lance, E. M., Inglis, A. E., Figarola, F., and Veith, F. J.

INSALL, J. N.: A midline approach to the knee. J. Bone and Joint Surg. 53-A:1584, Dec.

INSALL, J. N. and SALVATI, E.A.: Patella position in the normal knee joint. *Radiology*. 101:101-104.

JACOBS, B.: See Inglis, A. E. and Jacobs, B.

KAGEN, L. J.: Myoglobinuria in patients with myositis. *Arthr. and Rheum.* 14:457-464.

KAGEN, L. J.: Myopathy in the collagen diseases. *Present Concepts Int. Med.* 4:543-551.

KAGEN, L. J.: See Richter, R. W., Challenor, Y. B., Pearson, J., Kagen, L. J., Hamilton, L. L., and Ramsey, W. H.

KAGEN, L. J.: See Ryan, J. F., Kagen, L. J., and Hyman, A. I.

KNAPPER, W. H., BEATTIE, E. J., JR., LEWIS, J. L., HUVOS, A. G., WATSON, R. C., and BRANNAN, C. D.: Metastatic gestational choriocarcinoma. *Memorial Sloan Kettering Cancer Cen. Clin. Bull.* 1:19-23.

KOLIN, I., SCHERZER, A., NEW, B., and GARFIELD, M.: Studies of the school age child with meningocele; II: social and emotional adaptation. *J. Pediat.* 78:1013.

KORNGOLD, L.: See Tax, A. and Korngold, L.

LANCE, E. M., BOYSE, E. A., COOPER, S., and CARSWELL, E.: Rejection of skin allografts by irradiation chimeras: Evidence for a skin specific transplantation barrier. *Transplant. Proc.* 3:864, March.

LANCE, E. M., INGLIS, A. E., FIGAROLA, F., and VEITH, F. J.: Transplantation of the Canine Hind Limb. *J. Bone and Joint Surg.*, 53-A:1137-1149, Sept.

LANCE, E. M.: See Cooper, S. and Lance, E. M.

LANCE, E. M.: See Gillette, R. W. and Lance, E. M.

LANCE, E. M.: See Zatz, M. M., Mellors, R. C., and Lance, E. M.

LEVINE, D. B., McCARVER, C. L., and VELISKAKIS, K. P.: LEFT THORACIC CURVES: A rare pattern of idiopathic scoliosis. *Rev. Hosp. Spec. Surg.*, 1:75-79, Sept.

LIGHTFOOT, R. W., JR.: The seropathology of rheumatoid disease. *Present Concepts Int. Med.* 4:537-541.

LIGHTFOOT, R. W., JR.: See Hughes, G. R. V., Cohen, S. A., Lightfoot, R. W., Jr., Meltzer, J. I., and Christian, C. L.

LJUNGGREN, G., OLSSON, S. E., and GUSTAFSSON, P. O.: Idiopathic osteonecrosis in the dog. In *Idiopathic Ischemic Necrosis of the Femoral Head in Adults*. Wilhelm M. Zinn, ed. Geo. Thieme pub.

LOCKSHIN, M.: Arthritis in the emergency room. *Emergency Medicine*. 3:133.

LOCKSHIN, M. and BOMBARDIER, S.: In Vitro delayed hypersensitivity in normal and anergic humans. *Immunol.* 20:641.

LOCKSHIN, M.: See Edelen, J., Lockshin, M., and LeRoy, E.

LOCKSHIN, M.: See Gocke, D., Hsu, K., Morgan, C., Bombardier, S., Lockshin, M., and Christian, C. L.

LOTKE, P. A. and GRANDA, J. L.: Alteration in the permeability of articular cartilage by proteolytic enzymes. *Arthr. and Rheum.* 14:173, Jan., Feb.

LOTKE, P. A. and GRANDA, J. L.: Changes in the permeability of human articular cartilage in early degenerative osteoarthritis. *Surgical Forum*, 22:449-450.

MALSKY, S. J., ROSWIT, B., REID, C. B., and HAFT, J.: Radiation exposure to personnel during cardiac catheterization. *Radiology*, 100:671-674, Sept.

MARCOVE, R. C.: Cryosurgery for bone tumors. *Image of Med. and Res.*, eds. Roche, pp. 14-16, June.

MARCOVE, R. C.: The management of bone tumors. *Memorial Sloan Kettering Can. Cen. Clin. Bull.* 1:7-10.

MARCOVE, R. C., and HUVOS, A. G.: Cartilaginous tumors of the ribs. *Cancer*, 27:794-801, April.

MARCOVE, R. C., MIKE, V., HAJEK, J. V., LEVIN, A. G., and HUTTER, R. V. P.: Osteogenic sarcoma in childhood. *New York State J. Med.* 71:855-859, April.

MARCOVE, R. C.: See Arlen, M., Higinbotham, N. L., Huvos, A. G., Marcove, R. C., Miller, T., and Shah, I. C.

MARCOVE, R. C.: See Martini, N., Huvos, A. G., Mike, V., and Marcove, R. C., and Beattie, E. J., Jr.

MARCOVE, R. C.: See Pavon, S. J., Bullough, P. G., and Marcove, R. C.

MARSHALL, J. L. and BULLOUGH, P. G.: Repair of full thickness defects in articular cartilage. Part I. *Rev. Hosp. Spec. Surg.*, 1:60-66.

MARSHALL, J. L. and GALLO, G. A.: Patholuent foreign body. A diagnostic problem. A Case report. *Rev. Hosp. Spec. Surg.* 1:97.

MARSHALL, J. L. and OLSSON, S. E.: Instability of the knee. A long term experimental study in dogs. *J. Bone and Joint Surg.* 53-A: 1561.

MARTINI, N., GOODNER, J. T., D'ANGIO, G. J., BEATTIE, E. J., JR.: Tracheoesophageal fistula due to cancer. *New York State J. of Med.* 71:439-440, Feb. (abstract)

MARTINI, N., HAJDU, S., and BEATTIE, E. J., JR.: Primary sarcoma of the lung. *J. Thor. and Cardiovas. Surg.* 61:33-38, Jan.

MARTINI, N., HUVOS, A. G., MIKE, V., MARCOVE, R.C., and BEATTIE, E. J., JR.: Multiple pulmonary resections in the treatment of osteogenic sarcoma. *Ann. Thor. Surg.* 12:271-280, Sept.

MELLORS, R. C.: Leukemia virus and autoimmune disease of NZB mice. *Ann. N. Y. Acad. Sci.*, 183:221-229.

MELLORS, R. C.: Relation of leukemia-like virus to the immuno pathological disorders of NZB mice. *Proc. Conf. Atypical Virus Infections* — Possible Relevance to Animal Models and Rheumatic Disease. The Arthritis Foundation Conference Series No. 15, pp. 65-70.

MELLORS, R. C.: Wild-type gross leukemia virus and heritable autoimmune disease of New Zealand mice. *Am. J. Clin. Path.*, 56: 270-279.

MELLORS, R. C., SHIRAI, T., AOKI, T., HUEBNER, R. J., and KRAW-CZYNSKI, K.: Wild-type gross leukemia virus and the pathogenesis of the glomerulonephritis of New Zealand mice. *J. Exp. Med.* 133:113-132.

MELLORS, R. C.: See Shirai, T., and Mellors, R. C.

MELLORS, R. C.: See Zatz, M. M., Mellors, R. C., and Lance, E. M.

MERRITT, A. M., DODD, D. C., REID, C. F., BOUCHER, W. B.: Hypertrophic pulmonary osteopathy in a steer. *J.A.V.M.A.* 159:443-448, Aug.

MIRRA, J. M.: Aortitis and malacoplakia-like lesions of the brain in association with neonatal herpes simplex. *Am. J. Clin. Path.* 56: 104-110, July.

MITANI, F., WINCHESTER, R. J., ALVARES, A. P., POLAND, A. P. and KAPPAS, A.: Interaction of cytochrome P-450 with antibodies raised against a solubilized P-450 preparation from hepatic microsomes. *Molecular Pharmacology*, 7:689-696.

MONTGOMERY, R. M.: How I treat synovial cysts. *Postgrad. Med.* 49:1:231, Jan.

MONTGOMERY, R. M.: Problems involving feet. *Current Dermatologic Management*. E. Maddin, Ed., C. V. Mosby Co. St. Louis, Mo. pp. 114-116.

MONTGOMERY, R. M.: The Morton's toe. *Cutis*, 8:463-465, Nov.

MONTGOMERY, R. M.: Warts. *Current Therapy*. W. B. Saunders Co. Phila.

MUHEIM, G. and CRUTCHLOW, W. P.: 18F and 85SR scintimetry in the study of primary arthropathies. *Brit. J. Rad.* 290.

NAGLER, W.: Peripheral neuropathy in acute intermittent porphyria. *Arch. Phys. Med.* 52:426-431.

NICHOLAS, J. A.: Athletic injuries: Principles of diagnosis and treatment. *Meadowbrook Staff J.* 4:1:16-25.

NICHOLAS, J. A.: Double-contrast arthrography of the knee (Abstract). *Mod. Med.*, Oct.

OLSSON, S. E.: See Ljunggren, G., Olsson, S. E. and Gustafsson, P. O.

OLSSON, S. E.: See Marshall, J. L. and Olsson, S. E.

PATTERSON, R. L., JR.: Dislocations of the shoulder, in *Craft of Surgery* 2nd ed. Vol. III. Cooper, P. ed. Little, Brown and Co. Boston.

PAVON, S. J., BULLOUGH, P. G., MARCOVE, R. C.: Mesenchymal chondrosarcoma. *New York State J. of Med.* 71:1662-1664, July.

PETERSON, H. DeC.: Degenerative diseases of nervous system. In *Current Pediatric Therapy*, Gellis, S. S. and Kagan, B. M. eds. 5:73-76.

PHILLIPS, P. E.: Epilogue—A Review of Recent Developments in Chronic Infections Relating to the Connective Tissue Diseases. *Proc. Conf. Atypical Virus Infections*—Possible Relevance to Animal Models and Rheumatic Disease. The Arthritis Foundation Conference, pp. 178-187.

PHILLIPS, P. E.: Chronic virus infection and the connective tissue diseases, *Present Concepts in Int. Med.* 4:515-522.

PHILLIPS, P. E.: Virologic studies in rheumatoid arthritis and other connective tissue diseases. *J. Exp. Med.* 134:313s-319s.

PHILLIPS, P. E. and CHRISTIAN, C. L.: Virus studies in the connective tissue diseases. *abst. VII Europ. Rheumatol. Congr.* 21:3.

PHILLIPS, P. E. and CHRISTIAN, C. L.: Virus antibody studies in the connective tissue diseases. *Arthr. and Rheum.* 14:180-1.

PHILLIPS, P. E., ELLNER, P. D., CHRISTIAN, C. L.: Microbiologic studies of human collagen diseases. *Proc. Conf. Atypical Virus Infections—Possible Relevance to Animal Models and Rheumatic Disease.* The Arthritis Foundation Conference, pp. 31-33.

PINSKY, C. M., OETTGEN, H. F., EL-DOMEIRI, A., OLD, L. J., BEATTIE, E. J., JR., and BURCHENAL, J. H.: Delayed hypersensitivity reactions in patients with cancer. *Proc. of the American Association for Cancer Research*, 12:100, March, (Abstract)

POOL, J. L.: Survival in lung cancer. *New York State J. Med.* 71:2045-2049, Sept.

POSNER, A. S.: Amorphous calcium phosphate in hard tissue, *In Tooth Enamel II*, ed. R. W. Fearnhead and M. V. Stack, Wright, pub. Bristol, England.

POSNER, A. S.: Bone mineral, *In Living bone in health and disease.* I. Stein, Ed. J. B. Lippincott, Phila., Jan.

POSNER, A. S.: The chemical and physical nature of bone mineral. *In Progress in Methods of Bone Mineral Measurement.* Eds. G. D. Whedon and J. R. Cameron. U.S.P.H.S. pub., Jan.

POSNER, A. S.: See **Granda, J. L.** and **Posner, A. S.**

PULLMAN, J., BLUMENTHAL, N., and HANDLER-BERNICH, E.: On the interaction between thymidylic acid and sulfhydrylamine radio-protectors. *Radiation Res.* 45:476.

RANAWAT, C. S., JORDAN, L. R., and WILSON, P. D., JR.: A technique of muscle-pedicle bone graft in hip arthrodesis. *J. Bone and Joint Surg.*, 53-A:925-934, July.

RANAWAT, C. S., STRAUB, L. R., FREYBERG, R., GRANDA, J. L., and RIVELIS, M.: A study of regenerated synovium after synovectomy of the knee in rheumatoid arthritis. *Arthr. and Rheum.* 14:117, Jan., Feb.

RANAWAT, C. S.: See **Granda, J. L.**, **Ranawat, C. S.**, and **Flatt, A. E.**

RANAWAT, C. S.: See **Harrison, M. O.**, **Freiberger, R. H.**, and **Ranawat, C. S.**

RANAWAT, C. S.: See **Inglis, A. E.**, **Ranawat, C. S.**, and **Straub, L. R.**

REID, C.: See **Malsky, S. J.**, **Roswit, B.**, **Reid, C.**, and **Haft, J.**

REID, C.: See **Merritt, A. M.**, **Dodd, D. C.**, **Reid, C.**, and **Boucher, W. B.**

RICHTER, R. W., CHALENOR, Y. B., PEARSON, J., KAGEN, L. J., HAMILTON, L.L., and RAMSEY, W.H.: Acute myoglobinuria associated with heroin addiction. *J.A.M.A.* 216:1172.

ROOT, L.: Unicameral bone cyst of the humerus in a child with osteogenesis imperfecta (Report of a Case). *Rev. Hosp. Spec. Surg.* 1:88-94, Sept.

ROSENTHAL, R. K., SCHERZER, A., and COOPER, W.: Unusual etiologies in congenital cerebral palsy, *Rev. Hosp. Spec. Surg.* 1:36-41.

RUDD, L.: Adolescent service in a voluntary general hospital and drug abuse. *Society for Adolescent Medicine Newsletter*. June.

RUDD E.: Survey of 526 new patients of the rheumatic disease clinic of The Hospital for Special Surgery. *Rev. Hosp. Spec. Surg.* 1:67-70.

RUDD, E.: Training in rheumatology, *Journal of the International League Against Rheumatism*, Oct.

RUDD, E. and POLLEY, H. F.: Undergraduate training in rheumatology in medical schools in the USA. *Abstract of the VII European Rheum. Congr.* June.

RYAN, J. F., KAGEN, L. J., and HYMAN, A. I.: Myoglobinemia after a single dose of succinylcholine. *New England J. Med.* 285:824-827.

SALVATI, E. A., FREIBERGER, R. H. and WILSON, P. D., JR.: Arthrography for complication of total hip replacement, *J. Bone and Joint Surg.* 53-A:4, June.

SALVATI, E. A.: See **Insall, J. N.** and **Salvati, E. A.**

SCHERZER, A. and GARDNER, G.: Studies of the School age child with meningocele I: physical and intellectual development. *Pediatrics* 47:424.

SCHERZER, A.: See Kolin, I., Scherzer, A., New, B., and Garfield, M.

SCHERZER, A.: See Rosenthal, R. K., Scherzer, A. and Cooper, W.

SHIRAI, T., KAJI, H., TAKEICHI, N., SENDO, F., SAITO, H., HOSOKAWA, N., and KOBAYASHI, H.: Cell surface antigens detectable by cytotoxic test on Friend virus-induced and Friend virus-infected tumors in the rat. *J. Nat. Can Inst.* 46:449-460.

SHIRAI, T., and MELLORS, R. C.: Natural thymocytotoxic autoantibody and reactive antigen in New Zealand black and other mice. *Proc. Nat. Acad. Sci.*, 68:1412-1415.

SHIRAI, T.: See Mellors, R. C., Shirai, T., Aoki, T., Huebner, R. J., and Krawczynski, K.

STRAUB, L. R.: See Inglis, A. E., Ranawat, C. S., and Straub, L. R.

STRAUB, L. R.: See Ranawat, C. S., Straub, L. R., Freyberg, R., Granda, J. L., and Rivelis, M.

SWEETMAN, L. and BODANSKY, O.: Alteration of adenine nucleotide levels by adenine in normal rat liver, host liver and hepatoma. *Fed. Proc.* 30:1284 (abstract)

TAX, A. and KORNGOLD, L.: Comparison of the effect of elastase on human secretory IgA and serum IgA. *J. Immunol.*, 107:1189-1191.

TAX, A. and KORNGOLD, L.: The effect of cysteine at different temperatures on secretory IgA and serum IgA. *Fed. Proc.* 30:594.

TSAIRIS, P.: Mammalian motor units: Physiology histochemical correlation in three types in cat gastrocnemius. *Science*, 174:709-712.

VASICKA, A., ROBERTAZZI, R., RAJI, M., SCHEFFS, J., KOSMOWSKI, J., and GOEI, T.: Fetal bradycardia after paracervical block. *J. of Obstet. and Gynes.*, 38:500-512.

VELISKAKIS, K. P.: See Levine, D. B., McCarver, C. L., and Veliskakis, K. P.

WALDBAUM, R. S., MARSHALL, V. F., MUECKE, F. C., and WATSON, R. C.: Tuberous sclerosis with bilateral angiomyolipomas of kidney: A Case report with 8-year follow-up. *J. Urology* 106:180-183, Aug.

WALKER, P. S. and GOLD, B. L.: The tribology (friction, lubrication and wear) of all-metal artificial hip joints. *Wear* 17:287, April.

WALKER, P. S.: See Younes, M.A.M.A., Walker, P. S., Seller, P. C., Dowson, D., and Wright, V.

WATSON, R. C., BALTAKE, H. A.: The angiographic appearance of primary and secondary tumors of the liver. *Radiology*, 101:539-548, Dec.

WATSON, R. C.: See Giustra, P. E., Watson, R. C., and Shulman, H.

WATSON, R. C.: See Waldbaum, R. S., Marshall, V. F., Muecke, F. C., and Watson, R. C.

WILSON, P. D. JR.: See Ranawat, C. S., Jordan, L. R., and Wilson, P. D., Jr.

WILSON, P. D., JR.: See Salvati, E. A., Freiberger, R. H., and Wilson, P. D., Jr.

WINCHESTER, R. J., KUNKEL, H. G., and AGNELLO, V.: Occurrence of γ -globulin complexes in serum and joint fluid of rheumatoid arthritis patients: Use of monoclonal rheumatoid factors as reagents for their demonstration. *J. Exp. Med.*, 134:286s-295s.

WINCHESTER, R. J., LITWIN, S. D., KOFFLER, D., and KUNKEL, H. G.: Observations on the eosinophilia of certain patients with rheumatoid arthritis. *Arthr. and Rheum.*, 14:650-665.

WINCHESTER, R. J.: See Agnello, V., Koffler, D., Eisenberg, J. W., Winchester, R. J., and Kunkel, H. G.

WINCHESTER, R. J.: See Capra, J. D., Winchester, R. J., and Kunkel, H. G.

WINCHESTER, R. J.: See Mitani, F., Winchester, R. J., Alvares, A. P., Poland, A. P., and Kappas, A.

YOUNES, M.A.M.A., WALKER, P. S., SELLER, P. C., DOWSON, D., WRIGHT, V.: Study of the effect of mechanical working on the rheological properties of some potential artificial lubricants for human joints. *Rheol. Acta* 10:21-27, June.

ZATZ, M. M., MELLORS, R. C., and LANCE, E. M.: Changes in lymphoid populations of aging CBA and NZB mice. *Clin. Exp. Immunol.* 8:491.

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Venezuela—University Hospital, Caracas

Gifts and Endowed Beds

Agnew, A. C.
Agnew, Alexander McL.—in memoriam
Agnew, George B.
Agnew, John T.
Alumni Association
Andriesse, Elisabeth Spanjaard Fund
Art Fund
Arthritis Relief Fund
Arthritis and Rheumatism Foundation
 Grant
Avery, Mary O., Fund
Avery, Mary P.—in memory of her son,
 Henry Ogden Avery
Baird, Josephine B., Fund No. 1
Baird Rehabilitation Study Fund
Ballard, Edward L., Grant
Barth, Tina—in memory of
Becker, Cornelia D., Fund—in memory of
 Mary T. Becker and Joseph Becker
Bishop, Mrs. David Wolfe—in memory of
 her husband, David Wolfe Bishop
Bliss Fund—gift of Mrs. George Bliss
Bliss, George—in memory of his
 daughter, Netta Bolton Bliss
Bonnell, Florence K.—for Marie E. Hampton
Bowdoin, George—for the children of the
 Children's Aid Society
Brooks, Walter, Foundation Fund
Brown, Mrs. Ann D.—in memory of
 Annie V. Brown
Brown, Mrs. George Hunter—in memory
 of her daughter, Millie Brown
Brown, Margaret J., Orthopedic Bed
Bullinger, Elizabeth T., Beds
Bullinger, Elizabeth T.—Fund
Bullinger, Robert E.
B.P.O. Elks, New York Lodge No. 1
Children's Activities Fund
Clark Film Library Fund
Clark, Marian de Forest—to be known as
 the "Julian Bouton Clark Bed"
Clubfoot Clinic Fund
Cobb, John R.—Scoliosis Research Fund
Coley, William D.—in memory of

Curran, Elsie Postley—in memory of
 James Ross Curran
Currier, Edward West—in memory of
 Nathaniel Currier
Currier, Edward West—in memory of
 Eliza W. Currier
Currier, Edward West—in memory of
 West Currier
Currier, Edward West—in memory of
 Edward W. Currier
Currier, Estate of Laura—in memory of
 Walter B. Currier
Davidson, Eleanor H., Fund
DeBarbieri, Margaret K. Beiter, Fund
DeBruce, Property Maintenance Fund
Dellinger, Mary A.—in memory of her
 niece, Lulie Dexter
Development Work in Cerebral Palsy
Dubrin, Yetta Fund
Ehrenreich, Minnie M., Fund
Eichner, Benjamin B., Fund
Eiditz, Robert James—to be known as
 the "Marc Eiditz Bed"
Eidlitz, Otto M., Memorial Bed
Elms, Mrs. Leonard Flower Fund
Eustis, Marie C.—in memory of
 George C. Eustis
Farrar, Mrs. Sarah J.—in memory of her father
 and mother, Horace and Sarah J. Theall
Field and Bishop Cortland de Peyster, and
 Florence Van Cortland—in memory of
 Mary E. de Peyster
Finch, Henry L.—in devoted and loving
 memory of his father and mother,
 Edward L. and Annie R. Finch
Fraser, Mrs. Anna M.—in memory of her
 father and mother, Hansen K. and
 Emma B. Corning
Freiligh, Mary Helen—in memory of
 her daughter, Helen Freiligh
Friendship Hall Fund
Fromkin, Robert G., Fund for Research in
 Connective Tissue Diseases
Fund for Adult Motion Picture Entertainment
Fund for Annual Dance
Fund for Arthritis Patients

Fund for Cerebral Palsy Research
Fund for Development of Work
 in Cerebral Palsy
Fund for Equipment for Neuro-Muscular
 Study
Fund for Fellowship in Social Work
Fund for Maintenance of Solarium
Fund for Research in Rheumatic Diseases
Fund for Special Care of Crippled
 Children (various contributors)
Fund for Special Equipment
Fund for Treatment of Hernia Cases
 (The Delong Corporation)
Fund in Memory of Dr. William B. Coley,
 received from William Bingham II
Gambrill, Anna Van Nest—in memory of
 Mary Thompson Van Nest
Garland, Anne Louise Fund—
 in memory of:
 Robert Emmet, Jr.
 Thomas Addis Emmet
 Tudor Garland
 Hamilton Garland
 Elizabeth Garland
 James A. G. Emmet
 James A. Garland
 Charles Garland
 Aileen Emmet
 Hope Garland
Geographic Full-Time Fund
Gibson W. Fraser, for the "Jeanette
 Fraser Gibson Bed"
Gibney Memorial Fund
Gifford, Mrs. Ellen M., in memory of
 Mrs. Ellen M. Gifford
Greenwall, Susan, Directorship for
 Rehabilitation Medicine
Griswold, Mrs. Lydia Alley, in memory
 of her husband, George Griswold
Hardware Square Club of New York
Harnett, Katherine I. D.—in memory of
 Tommie S. Donald
Harriman Trust Fund for Research in
 Arthritis and Rheumatism
Hilson Discretionary Fund
Hochstadter, Edwin A. Estate—Aid and
 Charity to Individuals

Hughes, John C. Fund
Hurst, Thomas D. and Kate Fund
Istel Social Welfare Fund (formerly
Social Service Transportation Fund)
Janeway, Fannie, Memorial Fund
Keller, F. Wilson, Memorial Fund
Walter H. D. Killough
Knight, James, M.D.—in memory of
Killough, Walter, H.D.—in memory of
Keller, F. Wilson, Memorial Fund
James Knight, M.D.
Kreisler, Harriet, Fund
Krumb, Harry, Fund
Lewis, Louis, Memorial Bed
Lilly, Eli & Co., Grant
Lyric Art Society—Marie T. Schaefer
McCaffrey, John B.
Manners, Francis L. Whittlessey—The
Franklin Whittlessey Memorial Bed
Manners, Francis L. Whittlessey—in
memory of Hannah Roe Whittlessey
Martin, Janie A.—in memory of
Martin, Walter A.
Medical Library Fund
Mitchell, Minturn Arthur—in memory of
Roland Greene and Cornelia Port Mitchell
Miller, Alexander, Jr.
Miller, Anne—in memory of Alexander
Miller, Jr.
Miller, Anne—in memory of Cecil Miller
Miller, Harriet Thompson
Montgomery, Andrew H., Memorial Fund
More, Majorie Veith, Memorial Fund
Neute, Josephine L.—in memory of
Emily P. Munn
Neute, Josephine L.—in memory of Jessie B.
Brown
Nurses' Alumnae Fund
Nurses' Library Fund
Odlum-Cochran Foundation Grant
Olin, John M. Foundation Fund
Partridge, Franklin L.—in memory of
Grace Partridge, Endowed by her mother
Paton, Annie A.—in memory of
Alexander McL. Agnew
Patterson's Dr., Discretionary Fund

Philips, Henry Lewis and Gertrude
Abbot, Fund
Pillsbury, Annette Ellsworth—in memory
of her parents and sister
Pocher, Barbara Ellenbast—in memory of
Frank Ellenbast
Potter, Olando B., Fund
Ranney, Marie Celle—in memory of
Marie Celle Ranney
Arthritis and Paget's Disease
Ranth, Joseph P. Fund for Research in
Rathbone Fund (The)
Religious Flower Fund
Reynolds, Martha S.—in memory of her
mother, Ernestine Schaffner
Robbins, Blanche Stern
Roche, Edward and Ellen, Relief Foundation
Fund
Romeyn, Hiram Radcliff—endowed by his
wife, Grace W. Romeyn
Rotary Club of New York
Routh, Joseph P.—Fund for Research
in Arthritis and Paget's Disease
Russell Sage Dental Endowment Fund
Satterwhite, Florence C.—in memory of
James E. Martin, Jr., Preston C.
Satterwhite, Florence C. Satterwhite
Schemburg Fund for Care of Crippled
Schoonmaker, Emma W.—in memory of
Emma W. and Jacob H. Schoonmaker
Schweckendieck, Edith M., Fund
Secor, Mary E., Fund
Seekamp, Henry—in memory of
Semi-Centennial Memorial Fund
Seybold, Paulina—in memory of
Paulina Seybold
Sharp, Evelyn—Equipment Fund for
Home Assistance
Sharp, Evelyn—Kitchen Food Supply Fund
Shearer, George L., by his family and friends
Sloane, William, Fund
Social Service Relief Fund
Starin, Priscilla T. P.—in memory of
Ramson Parker
Starin, Priscilla T. P.—in memory of
Mary Dick Parker
Stern, Adele, Fund

Straub's, Dr., Fund for Hand Clinic
Sturges, Frederick M., Jr., Fund
Taylor, Charles Fayette, Memorial Fund
Taylor, Dr. Henry Ling—in memory of
Charles Fayette Taylor
Thayer, Jessica Haddington, Fund
Thorne, Lydia Ann—in memory of
Lydia Ann Thorne
Thorne, Phoebe Ann
Tillotson, Emma L.—in memory of
Millard Glenn Tillotson
Tindale, Robert T.—in memory of
Tower, Joseph T.—in memory of
Mary T. Tower
United Hospital Fund—NZB Mouse Lymphoma
Fund
Van Tine, Grace—in memory of her deceased
children, Grace Van Tine and Adelaide
Van Tine
Wagner, Dr. Lewis Clark, Alumni Residents'
Fund
Wainerdi's Dr., Harold R., Fund for Multiple
Sclerosis
Wall, W. W.—in memory of Louis Eugene Wall
Watson, Emily A.—in memory of John Watson
Watson, Emily A.—in memory of
Marcy L. Watson
Watson, Emily A.—in memory of
Mary J. Walker
Weedon, Eva A. Fund
Wendel, Georgina G. R.—in memory of
Josephine Wendel
Whitehall Foundation Grant
Wilson, Philip D., Fellowship Fund
Wilson's Dr. Philip D., Surgical Research
Fund (various contributors)
Witcher, Theresa Stone, Trust
Witherell, Eli, Fund
Witherell, Rebecca, Endowed Bed
Witherell, Rebecca, Open Air Fund
Woolworth, Velma B., Fund—in tribute to the
memory and generosity of H. Sylvia,
A. H. G. Wilks and Ella Van E. Wendel
Whitney, Helen Hay, Foundation Grant
X-Ray Education Fund

Officers Of The Society: 1864-1971

PRESIDENTS (Dates Inclusive)

Green, John C.	1864-1874
Brown, Stewart	1875-1879
Willets, Samuel	1880-1883
Macy, William H.	1883-1887
Osborn, William H.	1887-1890
Isham, William B.	1891-1901
Sturges, Frederick	1901-1910
Osborn, William Church	1910-1925
Melcher, John S.	1926-1928
Osborn, William Church— Acting President	1928-1930
Osborn, William Church	1931-1937
Osborn, William Church— President Emeritus	1938-1951
Rossiter, Arthur W.	1938-1948
Duryee, Samuel S.	1948-1958
Bastedo, Philip	1958-

CHAIRMAN OF THE EXECUTIVE COMMITTEE

Miller, Lawrence McK.	1956-1970
Dyson, Charles H.	1971-

VICE-PRESIDENTS (Dates Inclusive)

Minturn, Robert B.	1864-1865
Brown, Stewart	1864-1874
Lenox, James	1864-1879
Wetmore, A. R.	1864-1880
Wolfe, John David	1864-1872
Griswold, George	1866-1875
Willets, Samuel	1873-1879
Corning, H. K.	1875-1877
Macy, William H.	1876-1882
Terbell, Henry	1878-1887
Hoe, Robert	1880-1883
Colgate, Robert	1880-1884
Osborn, William H.	1881-1886
Potter, Orlando	1883-1893

Iselin, Adrian	1884-1904
Isham, William B.	1885-1890
	1905-1908
Agnew, Alexander L.	1887-1890
Webb, William H.	1888-1894
Kingland, William M.	1892-1904
Thorne, Samuel	1892-1905
Kennedy, John S.	1894-1908
Bliss, George	1895
Willets, John T.	1897-1911
Stearns, John Noble	1906
Wing, John D.	1905-1909
Macy, William H., Jr.	1908-1912
Sloane, William	1912-1916
Iselin, Ernest	1931-1951
Brown, Vernon Carleton	1935-1944
Wing, Morgan	1937-1948
Thieriot, Charles H.	1940
	1971-
Wilmerding, Lucius	1941-1949
Duryee, Samuel S.	1945-1948
Wing, Morgan, Jr.	1948-1952
Miller, Lawrence McK.	1949-1956
Finch, Henry L.	1949-1956
Symington, Charles J.	1951-1955
Pillot, Andre P.	1952-1958
Fletcher, Mrs. Walter D.	1955-1965
Reynolds, Mrs. John H.	1956-1971
Noel, Louis W.	1956-1966
Hilson, Mrs. Edwin I.	1957-
Stevenson, T. Kennedy	1958-1963
Rawle, Marshall	1964-

ADMINISTRATIVE VICE PRESIDENT

Young, T. Gordon	1966-
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TREASURERS (Dates Inclusive)

Sturges, Jonathan	1864-1874
Sturges, Frederick	1875-1906
Melcher, John S.	1907-1925

Shearer, George L.	1926-1946
Stewart, Wm. A. W.	1946-1955
Stewart, E. Sheldon	1955-1965
Dyson, Charles H.	1965-1971
Harris, Henry U.	1971-

ASSISTANT TREASURERS

Hoguet, Robert L., Jr.	1956-1963
Dyson, Charles H.	1964-1965
Harris, Henry U.	1965-1971
O'Neill, James D.	1966-

CORRESPONDING SECRETARIES AND RECORDING SECRETARIES

Hartley, Robert M.	1864-1875
Collins, Joseph B.	1864-1867
Swan, Otis D.	1868-1876
Warburton, A. F.	1876-1878
Abbe, George W.	1877-1879
Stewart, W. A. W.	1879-1887
Townsend, John P.	1886-1897
Stetson, Francis Lynde	1888-1889
Sturges, William C.	1890-1896
Jennings, Walter	1899
Osborn, William Church	1900-1909
Stearns, John Noble	1924-1930
Eyre, Edgar Ainsworth	1924-1935
Miller, Lawrence McK.	1931-1949
Finch, Henry L.	1936-1949
Townsend, Reginald T.	1949-1956
Melcher, John	1949-1956
Hilson, Mrs. Edwin I.	1957-1958
Rawle, Marshall	1957-1964
Osborn, William H., Jr.	1958-

1864-1969 BOARD OF MANAGERS (Dates Inclusive)

Abbe, George W.	1864-1879
Agnew, Alexander McL.	1876-1890
Amory, Mrs. Harcourt, Jr.	1966-
Bastedo, Philip	1955-

Beekman, James W.	1864-1865	Fried, Mrs. Walter J.	1962-	Lawrence, James F.	1963-
	1868-1870	Furland, Richard M.	1968-1971	Lenox, James	1864-1879
Billings, Frederick	1888-1899	Gibson, W. Frazer	1931-1937	Livingston, John C.	1908-1914
Bishop, David Wolfe	1882-1899	Gilman, William C.	1864-1871	Lowman, Lawrence W.	1969-
Bishop, Nathan	1864-1867	Gillespie, S. Hazard	1955-1959	McLane, Guy R.	1906-1911
Bliss, George	1887-1895		1961-1971		1914-1920
Bliss, Walter	1911-1922	Golding, Jerrold R.	1953-1967	Macy, William H.	1871-1886
Bonner, Robert	1879-1881	Green, John C.	1864-1874	Macy, William H., Jr.	1892-1912
Booth, William A.	1864-1865	Griswold, George	1864-1875	Magoun, George C.	1886-1891
Bradford, William H.	1878-1895	Hagaman, Frederick P.	1957-1962	Melcher, John	1926-1956
Brock, Mrs. Horace	1966-	Handy, Parker	1874-1876	Melcher, John S.	1906-1927
Brown, Stewart	1864-1879	Harris, Henry U., Jr.	1961-	Miller, Charles A.	1894-1897
Brown, Vernon C.	1931-1944	Hartley, Robert M.	1864-1875	Miller, Lawrence McK.	1926-1970
Cabot, F. Higginson	1926-1928	Hartshorn, Dr. W. Morgan	1941-1955	Minturn, Robert B.	1864-1865
Caswell, John	1866-1867	Harvey, Alexander D.	1957-1965	Mixer, David M.	1960-
Catlin, Loring	1972-	Hay, Louis C.	1929-1938	Moore, William S.	1938-1940
Chapin, L. H. Paul	1931-1935	Hayes, R. Somers	1901-1904	Morgan, Hon. Edwin D.	1880-1881
Church, John A.	1940-1941	Hilson, Edwin I.	1951-1952	Newburg, Andre W. G.	1972-
Clark, C. C.	1888-1899	Hilson, Mrs. Edwin I.	1952-	Noel, Louis W.	1936-1966
Clark, George C., Jr.	1906-1909	Hoe, Robert	1878-1883	Osborn, A. Perry	1941-1951
Colgate, Charles	1872-1877	Hoepli, Mrs. M. Henry	1958-1962	Osborn, Earl D.	1951-1963
Colgate, R. R.	1908-1921	Hoffman, Samuel V.	1873	Osborn, Frederick H.	1913-1928
Colgate, Robert	1869-1884	Hoffman, William B.	1887-1890	Osborn, William Church	1892-1951
Collins, Joseph B.	1864-1867	Hoguet, Dr. Joseph P.	1931-1946	Osborn, William H., Jr.	1957-
Collins, Paul J.	1969-	Hoguet, Robert L., Jr.	1953-1969	Parris, Girchard	1969-
Cooper, Peter	1866-1870	Holbrook, Mrs. John	1962-1967	Parsons, Henry I.	1908-1912
Corning, H. K.	1866-1877	Hoppin, William W.	1936-1948	Parsons, Thomas III	1968-
Dammond, Mrs. Donald G.	1969-	Houghton, Mrs. Arthur A., Jr.	1968-	Pennoyer, Paul G.	1955-1957
Davison, F. Trubee	1923-1924	Hutton, Mrs. Edward F.	1955-1959	Pierson, Dr. Richard N.	1957-1963
Davison, H. P.	1912-1921	Iselin, Adrian	1881-1904	Pilot, Andre P.	1941-1958
Denny, Thomas	1864-1875	Iselin, Adrian, Jr.	1902-1928	Polk, Samuel S.	1972-
DePew, Chauncey M.	1897-1901	Iselin, Ernest	1929-1951	Pool, Beekman H.	1948-1950
Draper, William H.	1897-1900	Isham, William B.	1880-1908	Potter, Frederick	1910-1916
Drexel, Mrs. John R., III	1959-1961	Jackson, William H.	1953-1955	Potter, Orlando	1921-1924
Duryee, Samuel S.	1940-1961	Jaffrey, Edward S.	1866-1877	Potter, Orlando B.	1875-1893
Dyson, Charles H.	1959-	Jennings, Walter	1892-1899	Prentice, Robert Kelly	1906-1958
Eliot, Howard	1920-1928	Johnson, Mrs. Deane F.	1966-	Pruyn, Erving	1931-1942
Eyre, Edgar Ainsworth	1923-1935	Kellogg, James C., III	1964-	Quincy, John W.	1864-1870
	1945-1955	Kennedy, John S.	1890-1908	Rawle, Marshall	1955-
Fancher, Enoch L.	1864-1865	Kingsland, William M.	1877-1904	Redmond, Geraldyn	1907-1918
Finch, Henry L.	1920-1960	Knapp, Theodore J.	1943-1947	Redmond, Ronald S.	1919-1924
Fiske, Josiah M.	1879-1881	Lapham, Lewis A.	1955-1957	Reynolds, Mrs. John H.	1949-1971
Fletcher, Walter D.	1941	Lawrence, Effingham	1939-1940	Ritter, Norman R.	1972-

Robbins, Chandler 1876-1887
Rockefeller, William A. 1923-1930
Rogers, Francis Day 1961-1966
Rossiter, Arthur W. 1921-1950
Schulte, Arthur D. 1967-
Scoville, Robert 1931-1934
Shearer, George L. 1921-1946
Simmons, Frank Hunter 1917-1927
 1929-1930
Sloane, William 1900-1916
Smith, S. Sidney 1900-1921
Stearns, John Noble 1889-1906
Stearns, John N. 1902-1908
 1909-1936
Stearns, John N., Jr. 1919-1930
Stetson, Francis Lynde 1888-1889
Stevenson, T. Kennedy 1949-1965
Stewart, E. Sheldon 1947-1965
Stewart, W. A. W. 1879-1887
Stewart, Wm. A. W. 1946-1955
Stout, Francis A. 1883-1888
Straus, Kenneth H. 1966-1967
Straus, Nathan, III 1950-1958
Stuart, Robert L. 1871-1909
Sturges, Arthur P. 1897-1909
Sturges, Frederick 1871-1909
Sturges, Frederick 1931-1935
Sturges, Jonathan 1864-1874

Sturges, William C. 1885-1896
Swan, Otis D. 1866-1876
Symington, Charles J. 1941-1955
Terbell, Henry S. 1864-1887
Thieriot, Charles H. 1936-1940
Thieriot, Charles H. 1965-
Thorne, Samuel 1880-1905
Tompkins, B. A.* 1952-1955
Townsend, John P. 1876-1897
Townsend, Reginald T. 1944-1957
Trumbull, Frank 1913-1919
Vanderbilt, Cornelius 1881-1895
VanRensselaer, Alex 1874-1878
Wall, Albert Carey 1957-1960
Warburton, A. F. 1876-1878
Webb, H. Walter 1893-1898
Webb, William H. 1882-1894
Wetmore, A. R. 1864-1880
Whitman, Dr. Royal 1932-1934
Willets, Howard 1913-1928
Willets, John T. 1866-1911
Willets, Samuel 1868-1882
Wilmerding, Lucius 1935-1949
Wing, John D. 1896-1909
Wing, J. Morgan 1912-1928
Wing, Morgan 1921-1950
Wing, Morgan, Jr. 1946-1953
Witter, Dean, Jr. 1959-1966

Witthaus, Rudolph A. 1864
Wolfe, John David 1864-1872
Wood, Oliver 1864-1868
 and 1870
Wriston, Walter B. 1958-1971

HONORARY MEMBERS

Duryee, Samuel S. 1961
Eyre, Edgar Ainsworth 1955-1962
Fletcher, Mrs. Walter D. 1965-
Gillespie, S. Hazard 1971-
Hartshorn, Dr. W. Morgan 1955-1956
Harvey, Alexander D. 1965-1968
Holbrook, Mrs. John 1968-
Osborn, Earl D. 1964-
Pierson, Richard N., M.D. 1964-
Pilot, Andre P. 1958-1963
Reynolds, Mrs. John H. 1971-
Stevenson, T. Kennedy 1965-1970
Stewart, E. Sheldon 1965-
Stewart, William A. W. 1955-1960
Symington, Charles J. 1955-
Tompkins, B. A.* 1962-1972
Townsend, Reginald T. 1957-

*deceased

Administration

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Christopher G. Wilbur

FINANCIAL DIRECTOR

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DIRECTOR OF NURSING

D. Dean Smith, R.N., M.A.

DIRECTOR OF PERSONNEL

Deborah Fuller

ADMITTING

Ellen Ritt

BUILDING SERVICES

Rose Cronin

BUSINESS OFFICE

Ted Meroe

CLINIC NURSING

Marjorie Pangas, R.N.

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Gladys Neustadter

COMPTROLLER

James Dillon

DIETARY

Peggy Webb

Roseleen Goldstone

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Joseph Weiss

Joseph Lukas

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Mary Ryan

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T. T. Goei, Ph.D.

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Jean McDaniel

MEDICAL LIBRARY

Kim Barrett

MEDICAL PHOTOGRAPHY

Dorothy Page

MEDICAL RECORDS

Elinor Hancock, R.R.L.

NURSING EDUCATION

Mildred Hallock, R.N.

OPERATING ROOM

Ingrid Andersson, R.N.

ORTHOPEDIC APPLIANCES

Herbert Kramer

OUT-PATIENT DEPARTMENT

Katherine Risi

PHARMACY

Vincent Conti

RADIOLOGY

William T. Gregory

RECEIVING & STORES

Clyde Bentham

REHABILITATION MEDICINE

Judith Kurtz, R.P.T.

RESEARCH ADMINISTRATION

Walter J. Schulz

SOCIAL SERVICE

Margaret Ryan, A.C.S.W.

VOLUNTEERS

Virginia Roberts

HOSPITAL CHAPLAINS**CATHOLIC**

The Reverend Joseph M. Reilly

JEWISH

Rabbi Sol Kahane

PROTESTANT

The Reverend Samuel Deibler

Medical Board

SURGEON-IN-CHIEF

Robert Lee Patterson, Jr., M.D.

Philip D. Wilson, Jr., M.D.*

*effective July 1, 1972

**PHYSICIAN-IN-CHIEF, DIRECTOR,
DEPARTMENT OF MEDICINE**

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**DIRECTOR OF RESEARCH
AND DEPARTMENT OF LABORATORIES**

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**DIRECTOR
OF OUT-PATIENT DEPARTMENT**

Lee Ramsay Straub, M.D.

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DEPARTMENT OF RADIOLOGY**

Robert H. Freiberger, M.D.

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DEPARTMENT OF ANESTHESIOLOGY**

John L. Fox, M.D.

**THE SUSAN GREENWALL
DIRECTOR OF PHYSICAL MEDICINE
AND REHABILITATION**

Leon Root, M.D.

**EXECUTIVE ASSISTANTS
TO SURGEON-IN-CHIEF**

John H. Doherty, M.D.

Allan E. Inglis, M.D.

**ACTING DIRECTOR,
DEPARTMENT OF BIOENGINEERING**

Philip D. Wilson, Jr., M.D.

CHAIRMAN, UTILIZATION COMMITTEE

Allan E. Inglis, M.D.

ATTENDING ORTHOPEDIC SURGEON

Peter J. Marchisello, M.D.



Professional Staff: 1971

DEPARTMENT OF ORTHOPAEDIC SURGERY

SURGEON-IN-CHIEF

Robert Lee Patterson, Jr., M.D.
to July 1, 1972
Philip D. Wilson, Jr., M.D.
from July 1, 1972

ATTENDING ORTHOPAEDIC SURGEONS

Rolla D. Campbell, M.D.
Alexander Hersh, M.D.
Frederick L. Liebolt, M.D.*
James A. Nicholas, M.D.
Lee Ramsay Straub, M.D.
Philip D. Wilson, Jr., M.D.

ASSOCIATE ATTENDING ORTHOPAEDIC SURGEONS

William D. Arnold, M.D.
John H. Doherty, M.D. (Executive
Assistant to Surgeon-in-Chief)
Sidney Eichenholtz, M.D.
Allan E. Inglis, M.D. (Executive
Assistant to Surgeon-in-Chief)

John N. Insall, M.D.
Bernard Jacobs, M.D.
Eugene M. Lance, M.D., Ph.D.**
David B. Levine, M.D.

Peter J. Marchisello, M.D.
Ralph C. Marcove, M.D.
Victor Mayer, M.D.
Leon Root, M.D.

* Emeritus Staff, August 1971
** Resigned 6/30/71

ASSISTANT ATTENDING ORTHOPAEDIC SURGEONS

Samuel Avnet, M.D.
Howard Balensweig, M.D.

Walther H. Bohne, M.D.
John L. Marshall, M.D.
Chitranjan S. Ranawat, M.D.
Konstantin Veliskakis, M.D.

ORTHOPAEDIC SURGEONS TO OUT-PATIENT DEPARTMENT

Joel B. Adler, M.D.
Michael Browne, M.D.
Anthony Camarda, M.D.
Rudolph Dangelmajer, M.D.
Richard G. Eaton, M.D.
Robert A. Goldstone, M.D.
Joseph Mason, M.D.
Thomas D. Rizzo, M.D.
William J. Walsh, M.D.

DEPARTMENT OF ANESTHESIOLOGY

ACTING DIRECTOR

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Else Pappenheim, M.D.****

* Resigned 6/30/71

** Emeritus Staff 7/1/71

*** Emeritus Staff 7/21/71

**** Resigned 6/30/71

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Senior Medical Consultant
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Surgery
Oscar Bodansky, M.D.
Biochemistry
Philip Cooper, M.D.
Surgery
John Dorsey, M.D.
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Leopold Koss, M.D.
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Fletcher McDowell, M.D.
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Surgery

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Chen-Ya Huang, Ph.D.

Tomihisa Koshino, M.D., Ph.D.***

Toshikazu Shirai, M.D.

John D. Termine, Ph.D.

Takashi Yoshiki, M.D.

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Patrick Cahill, Ph.D.****

Sten-Erik Olsson, D.V.M., M.D., Ph.D.

Charles Reid, D.V.M.

* Resigned 9/30/71

** Resigned 6/15/71

*** Appointment completed
6/30/71

**** Resigned 6/30/71

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Virginia C. Mitty, M.D.

Hart deC. Peterson, M.D.

ASSISTANT ATTENDING PEDIATRICIANS

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Lucie Rudd, M.D.

William T. Seed, M.D.

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PHYSICIAN TO OUT-PATIENT DEPARTMENT

Willibald Nagler, M.D.

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James Warren Brown, M.D.

ASSISTANT ATTENDING PSYCHOLOGIST

David Clayson, Ph.D.

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John Laughlin, Ph.D.

ASSOCIATE ATTENDING RADIOLOGIST

Margaret O. Harrison Stubbs, M.D.

ASSISTANT ATTENDING RADIOLOGISTS

Bernard Ghelman, M.D.

James C. Hirschy, M.D.

Jeremy J. Kaye, M.D.

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Nancy S. Hoge, M.D.

DEPARTMENT OF SPORTS MEDICINE**DIRECTOR**

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CONSULTANT

James A. Nicholas, M.D.

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Joseph Alexander, M.D.
Consultant in Medicine

Irvin Balensweig, M.D.
Attending Orthopaedic Surgeon

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Physician to Out-Patient Department, Department of Rheumatic Disease

Paul H. Breuning, M.D.
Attending Otolaryngologist

Charles L. Burstein, M.D.
Director, Department of Anesthesiology

Richard H. Freyberg, M.D.
Director, Department of Rheumatic Disease

J. Theodore Geiger, M.D.
Orthopaedic Surgeon to Out-Patient Department

Milton Helpern, M.D.
Chief of Pathology

I. David Horwitz, M.D.
Orthopaedic Surgeon to Out-Patient Department

Jerome Lawrence, M.D.
Associate Attending Orthopaedic Surgeon

Frederick L. Liebolt, M.D.**
Attending Orthopaedic Surgeon

Arthur Lee-Roy, M.D.
Associate Attending Anesthesiologist

Charles W. Lester, M.D.
Attending in Thoracic Surgery

Raymond W. Lewis, M.D.
Chief of Radiology

John LoVerme, M.D.**
Associate Attending Physician

*As of 7/71

**As of 8/71

Joseph Moldaver, M.D.
Director, Neuro-Orthopaedic Service

Royal Montgomery, M.D.
Consultant in Dermatology

Thomas Morrissey, M.D.
Attending Urologist

Marjorie B. Patterson, M.D.
Assistant Attending Physician

Peter-Cyrus Rizzo, M.D.
Attending Orthopaedic Surgeon

Willard H. Squires, M.D.
Attending Physician

John A. Taylor, M.D.
Attending Urologist

Lewis Clark Wagner, M.D.
Attending Orthopaedic Surgeon

GRADUATE STAFF

Frank R. Barta, Jr., M.D.
Louis J. Benton, Jr., M.D.
Charles J. Bleifeld, M.D.
Edward Brown Crosby, M.D.
William P. Crutchlow, M.D.
William H. Davidson, M.D.
Michael J. Errico, M.D.
Dewey N. Ervin, M.D.
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Ian B. Fries, M.D.
Victor M. Goldberg, M.D.*
Charles Hamlin, M.D.
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Roland W. Pritchard, M.D.
Thomas P. Sculco, M.D.
Luther F. Warren, M.D.
Russell F. Warren, M.D.
Dennis W. Wise, M.D.

FELLOW (CEREBRAL PALSY)

Birgitta Peterson, M.D.

FELLOWS (ORTHOPAEDIC)

Charles W. Carpenter, M.D.*
Robert B. Cameron, M.D.*
Claudio B. Charosky, M.D.*
Joseph C. De Fiore, Jr., M.D.
Louis A. Fuchs, M.D.*
Joseph V. Hajek, M.D.*
Joseph I. Hoffman, Jr., M.D.

Louis R. Jordan, M.D.*
Jose M. Lardone, M.D.
Paul A. Lotke, M.D.*
John L. Marshall, M.D.*
David G. Mendes, M.D.*
Robert Rosenthal, M.D.*
(Senior Clinical Fellow)
Eduardo A. Salvati, M.D.
Hiromu Shoji, M.D.
Dumronk Thanachanant, M.D.*
*Completed training during the year

FELLOW (ORTHOPAEDIC RADIOLOGY)

Sigmund Mittler, M.D.*

FELLOWS (RESEARCH)

Stanley E. Asnis, M.D.
Adele Boskey, Ph.D.
Kenneth A. Falvo, M.D.
Joseph V. Hajek, M.D.*
Paul A. Lotke, M.D.*
John L. Marshall, M.D.*
Yann Masse, M.D.*
Marion Zatz, Ph.D.

FELLOWS (RHEUMATIC DISEASE)

Ira N. Doneson, M.D.
Ernesto J. Garcia, M.D.*
Valee Harisdangkul, M.D.
Ana I. Anderson Imbert, M.D.
Jerome J. Schnapp, M.D.
Jack Waxman, M.D.

FELLOW (RHEUMATO- ORTHOPAEDIC)

Xamnan Tulyasathien, M.D.

All Staff Members holding Staff Appointments in either New York Hospital-Cornell University Medical College or The Hospital for Special Surgery-Philip D. Wilson Research Foundation shall be considered Staff Members of the other Hospital.

*Completed training during the year

The Hospital For Special Surgery Volunteers: 1971

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Mrs. Benjamin Lorber
Mrs. Willis Phillips
Mrs. Norma S. Wurzburger

20 YEARS AND OVER

Mrs. Charles S. Bannerman
Mrs. André Iste!
Mrs. Albert Kinney
Mrs. Armitage Watkins

15 YEARS AND OVER

Mrs. Newcomb D. Cole
Mrs. O. Vaughn Dennis
Mrs. Max H. Friedman
Mrs. Robert Geller
Mrs. Saul Goldstein
Mrs. Henry Numrich
Mrs. David Reuter
Mrs. John D. Sloane
Mrs. Earl VanDerwerker

10 YEARS AND OVER

Mrs. William Arnold
Mrs. Ivor Bevan
Mrs. Jay Bresler
Mrs. J. Howard Denny
Mrs. Robert Kohns
Mrs. Raphael Meisels
Mrs. Robert Lee Patterson, Jr.
Mrs. George F. Rooney
Miss Yolande Salzat
Mrs. Robert P. Warren

5 YEARS AND OVER

Mrs. Sydney Berman
Mr. Benjamin Cohen
Miss Rosetta Darraugh
Mr. Salvatore Fazio

Mrs. Robert Freiberger

Mr. John Gibbon
Mrs. Rube Goldberg
Mrs. Ide K. Halpern
Mrs. Siegfried Hannah
Mrs. Lisa Harper
Miss Jessie Lee Johnson
Mrs. Theodore Kaufmann
Mrs. Murray Mandel
Mrs. Edward Millstein
Miss Esther Murrell
Mrs. Walter Niklaus
Mrs. William E. Parsley
Mrs. Robert Powell
Mrs. Lee Ramsay Straub
Mrs. Carl A. Ulffers
Mrs. Sidney P. Voice
Mrs. Philip D. Wilson, Jr.
Mrs. Paul Wolf
Miss Elisabeth Wurzburger
Mrs. Elisabeth Zavin

UNDER 5 YEARS

Miss Garnet Ahrendt
Miss Susan Allen
Mrs. Alma Askin
Mr. Jeffrey Bachrach
Mrs. Paul Baudry
Miss Helen Elliot Bearn
Miss Anne Biberman
Miss Carolyn Bishop
Miss Victoria Blitz
Mrs. Sidney Blue
Mrs. Thierry Boon
Miss Kathleen Brennan
Mrs. John Brownlee
Mrs. David Bunting
Miss Linda Burke
Miss Sharon Jo Byrnes
Miss Tania Carlton

Miss Emily Carnahan

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Miss Alina Roxanne Chu
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Miss Phyllis DeMartino
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Mr. Anthony Farina
Mrs. Edward I. Farley
Mrs. Bennett Fass
Mrs. Emil Fink
Mrs. Olive Fischer
Miss Barbara Flieri
Miss Jane French
Mrs. Jack Furth
Mrs. Louis Furth
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Mr. Abdul Ghani
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Miss Kim Ann Gravagna
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Mrs. Lothar Schoenemann
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Mr. Lawrence Schuyler
Mrs. John Shepard
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Mrs. Herman Sokol
Miss Laurie Soltzer
Miss Patricia Stark
Miss Claire Stavola
Mrs. John Steel
Mrs. Lawrence Jay Sternberg
Miss Hanna Stiller
Mr. Fred Stutz
Sr. Ann Toolan
Mr. Stephen Tucker
Miss Mary Varvoutis
Mr. Andrew Weber
Mrs. Andrew Weber
Mrs. Milton Weber
Mr. Jed Jacob Weinberg
Miss Felice Weintraub
Miss Sonya Welch
Miss Jill Wesler
Miss Nancy Wiese
Mrs. Leonard Zalkin
Mr. Elias Zavin
Miss Alice Zoloto

Volunteer Department Statistics: 1971

Statistics

Total Hours	25,149
Total Volunteers	203
Total Hours since 1939	616,145
General Data	
156 Day volunteers	23,304 hours
47 Evening & weekend volunteers	1,845 hours
166 Senior volunteers	21,769 hours
37 Junior volunteers	3,380 hours
24 Men volunteers	3,575 hours
Seniors—17	
Juniors— 7	
81 New volunteers during 1971	

Individual Volunteer Hours—1971

150-300 hours	39 volunteers
300-500 hours	14 volunteers
500-1000 hours	4 volunteers
over 1,000 hours	1 volunteer
58 volunteers gave over 150 hours of service during 1971	

Length of Service through 1971

5-10 years	22 volunteers
10-15 years	10 volunteers
15-20 years	8 volunteers
20-25 years	5 volunteers
25-30 years	2 volunteers
over 30 years	2 volunteers
49 volunteers have served HSS for over 5 years	

Awards for Volunteer Service through 1971

UHF Junior Awards for 50 hours of service	10
HSS and UHF pins for 150 hours of service (13 juniors are eligible for pins)	30
HSS and UHF bars for 400 through 3,500 hours of service	28
HSS and UHF bars for 4,000 through 14,000 hours of service	8
Total awards 1971	76

Areas of Volunteer Service—1971

1. Administration
 - Clerical work
 - Decorating
 - Special projects—medical and administrative staff
2. Admitting
3. Chaplaincy Services—3 Faiths
4. Communication Services
 - Escort & messenger service
 - Information Desk
5. Financial Administration
6. Gift Shop
7. Laboratories
 - Clerical work
 - EKG Laboratory
8. Nursing Department
 - Central Sterile Supply
 - Patient floors
 - Chart preparation
9. Out-Patient Department
 - Registration
 - Club Foot Clinic
10. Patients Library
 - Adult Library
 - Children's Library
11. Personnel
12. Prosthetics & Orthotics Department
13. Public Information
14. Public School 402
15. Publication—**HSS Review**
16. Radiology
17. Receiving & Stores
18. Rehabilitation Medicine
 - Cerebral Palsy Clinic
 - Occupational Therapy
 - Physical Therapy
 - Recreational Therapy
 - Adult Program
 - Children's program
19. Research
20. Social Service
21. Volunteer Department
 - Clerical projects
 - Coffee Cart
 - Patient Visiting
 - Interpreter services

Women's Auxiliary

OFFICERS

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1st Vice-Chairman

Mrs. Robert Lee Patterson, Jr.

2nd Vice-Chairman

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Assistant Treasurer

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Corresponding Secretary

Mrs. P. Bell Phillips

Recording Secretary

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Mrs. Theodore Kaufmann

Mrs. Christine P. King

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Mrs. Llewellyn Lee

Mrs. David Levine

Mrs. Walter Niklaus

Mrs. Robert Lee Patterson, Jr.

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Mrs. Willis R. Phillips

Mrs. Robert I. Powell

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Mrs. Herman Sokol

Mrs. L. Ramsay Straub

Mrs. T. Campbell Thompson

Mrs. Sidney Voice

Mrs. Armitage Watkins

Mrs. Philip D. Wilson

Mrs. Philip D. Wilson, Jr.

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Mrs. Alling Woodruff

Comparative Statistics

	1971	1970	1969	1968	1967
Total Patient Days	63,591	63,037	61,095	62,098	61,505
Per cent of Occupancy	87.1	86.3	82.0	83.4	84.6
Admissions	3,515	3,504	3,432	3,199	3,128
Orthopedic	3,062	3,089	3,099	2,819	2,844
Medical	453	414	333	380	284
Discharged	3,522	3,516	3,419	3,178	3,266
Deaths	13	19	16	27	16
Autopsies	7	11	10	14	10
Percent—Autopsies to Deaths	53.8	57.9	62.5	51.8	62.5
Laboratory Tests	263,942	201,024	136,448	125,177	118,685
X-Ray Films Made	104,395	101,056	95,689	89,780	86,911
Drug Prescriptions Filled	89,240	82,610	79,433	73,422	69,200
Operations	2,714	2,682	2,556	2,584	2,356
Average Length of Stay (Days)	18	18	18	20	20
Meals Served to Patients	178,055	189,111	183,291	186,294	186,335
Total Number of Volunteers	203	216	201	194	229
Hours Donated by Volunteers	25,149	24,597	21,340	22,106	22,102
Physical Medicine Treatments—					
Physical and Occupational Therapy	34,629	38,635	40,359	37,338	25,753
Total Number of Employees	726	750	744	778	746
Out-Patient Department					
First Visits	3,885	4,032	3,996	3,905	4,549
Revisits and Referred	29,229	29,492	30,398	31,269	32,704
Total Visits	33,114	33,524	34,394	35,174	37,253

Accountants' Opinion

Board of Managers
New York Society for the Relief of the
Ruptured and Crippled, Maintaining
The Hospital for Special Surgery and the
Margaret M. Caspary Clinic
New York, New York

We have examined the accompanying balance sheet of the New York Society for the Relief of the Ruptured and Crippled, Maintaining The Hospital for Special Surgery and the Margaret M. Caspary Clinic as of December 31, 1971, and the related statements of operations, operations for research funds, and changes in fund balances for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. As to contributions and legacies, it was not practicable to extend our examination beyond accounting for the receipts as recorded. Marketable securities owned at December 31, 1971 were confirmed to us by the custodian.

In our opinion, which with respect to contributions and legacies is limited to those recorded on the records, the financial statements referred to above present fairly the financial position of the New York Society for the Relief of the Ruptured and Crippled, Maintaining The Hospital for Special Surgery and the Margaret M. Caspary Clinic at December 31, 1971, and the results of its operations for the year then ended, in conformity with generally accepted accounting principles, except for the accounting practice with respect to adjustments of prior years' income relating to settlements with reimbursing agencies as explained in Note 11, applied on a basis consistent with that of the preceding year.

Touché Ross & Co
Certified Public Accountants
(Successors to the practice of
MacNicol, Johnson & Co.,
Certified Public Accountants,
who examined the
financial statements for the
year ended December 31, 1970)

New York, N. Y., April 6, 1972

Condensed Comparative Statement Of Income And Expense

For the year ended December 31, 1971 and December 31, 1970

HOSPITAL OPERATING REVENUE:

	December 31, 1971	December 31, 1970
Patient service revenue (net of allowances \$1,093,338 (1971) and \$1,040,361 (1970)).....	\$10,578,480	\$ 9,370,665
Other operating revenue, including transfers from other funds of \$83,379 (1971) and \$95,569 (1970)	998,528	927,780
	<u>11,577,008</u>	<u>10,298,445</u>

HOSPITAL OPERATING EXPENSES:

Salaries and wages	7,192,851	6,640,470
Supplies and expense	4,085,751	3,454,356
Depreciation	724,186	638,894
	<u>12,002,788</u>	<u>10,733,720</u>

LOSS FROM HOSPITAL OPERATIONS	(425,780)	(435,275)
NET RESEARCH LOSS	(219,272)	(331,560)

LOSS FROM HOSPITAL AND RESEARCH OPERATIONS	(645,052)	(766,835)
NONOPERATING INCOME	719,677	555,282
NET INCOME/(LOSS)	<u>\$ 74,625</u>	<u>\$ (211,553)</u>

See notes to financial statements

Comparative Balance Sheet as at December 31, 1971 and December 31, 1970

ASSETS	December 31, 1971	December 31, 1970
	(Note 1)	
GENERAL FUND		
Current assets:		
Cash	\$ 305,563	\$ 113,105
Accounts receivable for services to patients, less allowance for uncollectible accounts and contractual allowances of \$232,528 (1971) and \$162,547 (1970) (Note 2).....	1,469,962	1,144,522
Due from reimbursing agencies—rate adjustments.....	34,379	380,489
Loans and other accounts receivable.....	82,016	89,594
Inventories of materials and supplies, at cost.....	219,662	191,369
Marketable securities (quoted market \$9,364,128 and \$7,429,875) (Note 3).....	5,737,142	4,873,562
Prepaid expenses and deferred charges.....	137,624	83,188
Total current assets	7,986,348	6,875,829
Noncurrent portion of loans receivable.....	161,100	137,200
Investments, at cost, or nominal value:		
Sutton Terrace Apartments (Note 4).....	820,000	820,000
Other (Note 5)	2	3
Property, plant and equipment (Note 6).....	11,537,882	10,676,094
Construction in progress.....	313,894	959,944
	12,832,878	12,593,241
	<u>\$20,819,226</u>	<u>\$19,469,070</u>
TEMPORARY FUNDS FOR DESIGNATED PURPOSES		
Cash	\$ —	\$ 6,529
Marketable securities (quoted market \$1,126,293 and \$732,934) (Note 3).....	1,145,477	752,112
Due from U.S. Trust Co.—security settlement.....	—	702,018
Due from other funds.....	431,972	478,618
	<u>\$ 1,577,449</u>	<u>\$ 1,939,277</u>
RESEARCH FUND		
Cash	\$ 51,784	\$ 4,776
Accounts receivable:		
United States Public Health Service Research grants (Note 9).....	315,143	438,176
Other grants	1,276	295
Marketable securities (quoted market \$693,919 and \$438,676) (Note 3).....	472,287	323,523
Due from other funds	315,170	331,560
	<u>\$ 1,155,660</u>	<u>\$ 1,098,330</u>
PERMANENT FUNDS		
Cash	\$ 22,155	\$ 40,055
Marketable securities (quoted market \$2,937,198 and \$2,534,970) (Note 3).....	2,179,953	2,127,757
Due from other funds.....	14,134	—
	<u>\$ 2,216,242</u>	<u>\$ 2,167,812</u>

LIABILITIES AND FUND BALANCES

	December 31, 1971	December 31, 1970
		(Note 1)
GENERAL FUND		
Current liabilities:		
Accounts payable	\$ 544,561	\$ 583,284
Accrued salaries	120,209	88,783
Payroll taxes payable	16,624	76,156
Other current liabilities	195,738	217,527
Current portion of mortgage payable	18,810	875,450
Total current liabilities	895,942	1,841,200
Mortgage payable (Note 7)	840,048	—
Reserve for insurance premium adjustments	36,000	36,000
Due to other funds	761,276	753,342
Fund balances:		
Depreciation fund	995,938	536,202
General fund	11,552,880	11,428,764
Board reserved	5,737,142	4,873,562
	<u>\$20,819,226</u>	<u>\$19,469,070</u>
TEMPORARY FUNDS FOR DESIGNATED PURPOSES		
Accrued expenses	\$ 190,064	\$ —
Fund balances:		
Second Century Fund	579,968	1,152,175
Pinkerton Fund	235,455	247,695
Other funds	571,962	539,407
	<u>\$ 1,577,449</u>	<u>\$ 1,939,277</u>
RESEARCH FUND		
Accounts payable	\$ 110	\$ —
Fund balances:		
United States Public Health Service Grants	360,185	406,714
Outside foundation grants	217,469	279,313
Institutional funds	577,896	398,595
Due to other funds	—	13,708
	<u>\$ 1,155,660</u>	<u>\$ 1,098,330</u>
PERMANENT FUND		
Principal—restricted as to use of income	\$ 1,992,189	\$ 1,880,703
Principal—unrestricted as to use of income	181,506	180,429
Unexpended balance of restricted income	42,547	63,552
Due to other funds	—	43,128
	<u>\$ 2,216,242</u>	<u>\$ 2,167,812</u>

See notes to financial statements

Notes to Financial Statements Year Ended December 31, 1971

NOTE 1. RECLASSIFICATIONS:

Certain reclassifications have been made in 1970 financial statements to conform to the classifications used in 1971.

NOTE 2. ACCOUNTS RECEIVABLE FOR SERVICES TO PATIENTS AND PATIENT SERVICE REVENUE:

Revenues received under Medicare reimbursement agreements for inpatients and outpatients, totaling approximately \$2,150,000 for 1971 and \$1,810,000 for 1970 are subject to audit and retroactive adjustment. Provisions for estimated retroactive adjustments under these agreements have been made in the financial statements.

NOTE 3. MARKETABLE SECURITIES:

The basis of marketable securities is cost or fair market value of the securities at the date of gift.

NOTE 4. INVESTMENT—SUTTON TERRACE APARTMENTS:

On August 1, 1969, the Society and five other institutions purchased, as tenants in common, the Sutton Terrace Apartments. The Society's 10% pro rata share of the cost of this investment was \$800,000. The Society has also made net working capital contributions totaling \$20,000 since the date of acquisition. The Society's 10% equity, based upon audited financial statements as of December 31, 1971 and December 31, 1970, was \$728,026 and \$766,953, respectively.

NOTE 5. INVESTMENTS—OTHER:

This represents the nominal value of the Society's interest in two oil wells which were donated to the Hospital.

NOTE 6. PROPERTY, PLANT AND EQUIPMENT:

Property, plant and equipment, at cost, is summarized as follows:

	December 31,	
	1971	1970
Land	\$ 1,399,343	\$ 1,399,343
Buildings	12,595,988	11,164,177
Furniture and equipment	4,318,931	3,965,770
	18,314,262	16,529,290
Less accumulated depreciation	6,776,380	5,853,196
	<u>\$11,537,882</u>	<u>\$10,676,094</u>

Depreciation on equipment is computed by the straight-line method, based upon the estimated useful lives of the individual assets. Depreciation on buildings is computed by the sum of the years-digits method based upon the estimated useful lives of the individual assets.

NOTE 7. MORTGAGE PAYABLE:

The mortgage note, which bears interest at the rate of 8 1/4% per year, is collateralized by a mortgage on property owned by the Society, the carrying value of which is \$706,409. Combined interest and principal payments are due in monthly installments of \$7,414 (\$88,965 annually). The unpaid balance of the mortgage note becomes due and payable on May 21, 1991.

NOTE 8. PENSION PLAN:

The Hospital has a noncontributory pension plan covering all employees who attain the age of 30, if hired prior to age 55. Employees' interest in the plan is 100% vested after fifteen years of credited service and the attainment of age 50, payable at normal retirement at age 65. Although contributions to the plan may be reduced or suspended at any time, it is the Hospital's policy to fund accrued pension cost currently. The total expense for the plan was \$122,292 and \$133,123 for the years 1971 and 1970, respectively. The portion of the Hospital's current payment into the plan to fund past service costs is estimated at \$43,000. The past service cost is to be amortized over the next twenty-nine years.

The Hospital also made unfunded pension payments of \$34,545 and \$23,288 for the years 1971 and 1970, respectively.

NOTE 9. UNITED STATES PUBLIC HEALTH SERVICE RESEARCH GRANTS:

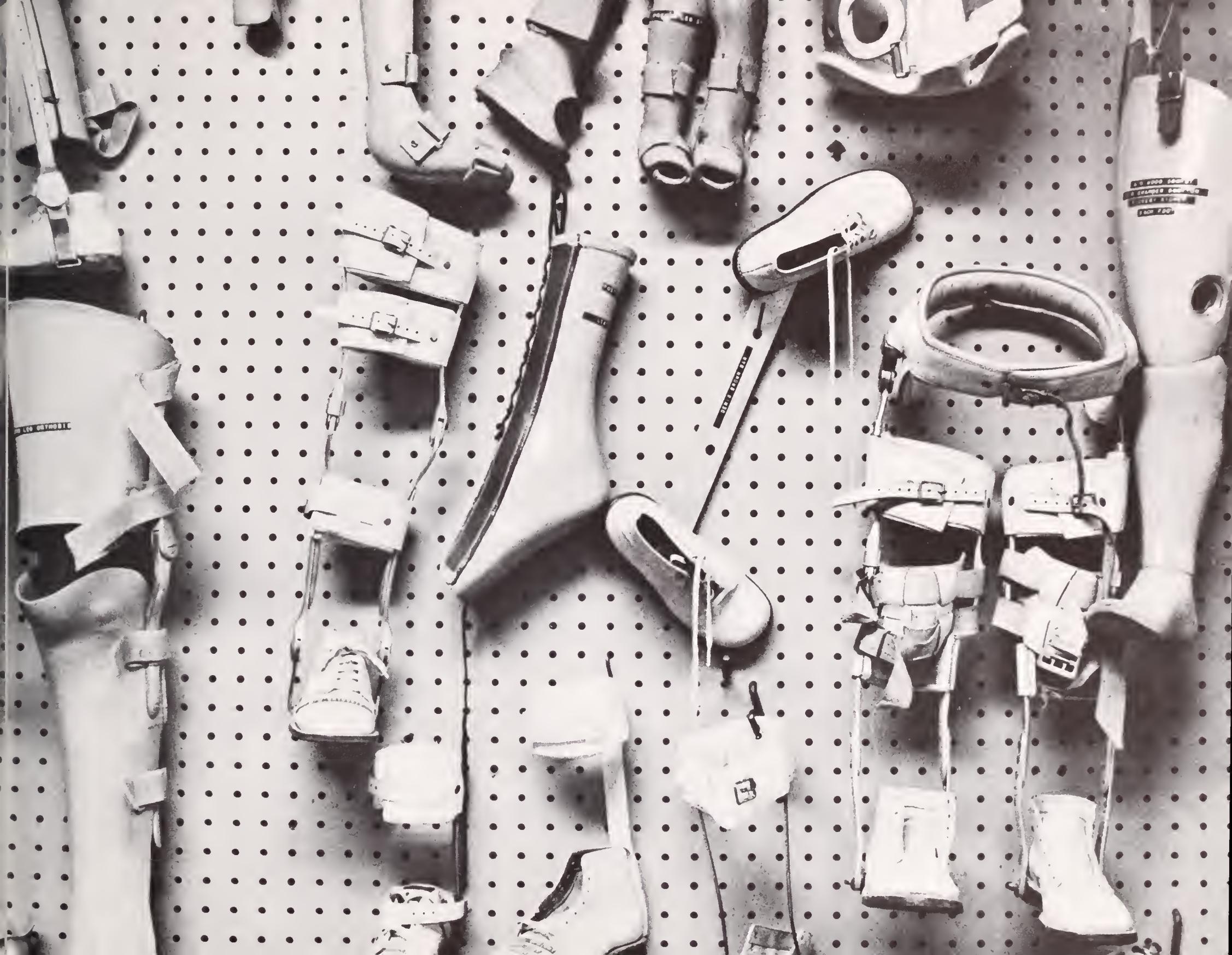
Awards for the years 1967 through 1971 are subject to audit by the government and retroactive adjustment. Also, overhead and fringe benefits charged to these grants and included in income amounting to \$204,134 and \$123,396 for the years 1971 and 1970, respectively, are subject to retroactive adjustment.

NOTE 10. GAINS AND LOSSES ON SALES OF GENERAL FUND SECURITIES:

A committee of the American Institute of Certified Public Accountants is developing an audit guide which will identify generally accepted accounting principles for hospitals. The guide, when issued, may require the Society to adopt accounting principles which are different from those presently followed, and may affect the determination of periodic income. The principles proposed for adoption would require that net gains and losses on sales of securities carried as assets of unrestricted funds be included in the statement of income. During the years 1971 and 1970, respectively, the Society realized a net gain of \$203,354 and incurred a net loss of \$447,327 on sales of securities carried as assets of the general fund. These amounts were credited and charged to the general fund balance and are not reflected in the statement of income.

NOTE 11. ADJUSTMENTS OF PRIOR YEARS' INCOME-REIMBURSING AGENCIES:

Adjustments of prior years' income relating to settlements with reimbursing agencies, aggregating \$199,100 and \$100,535 in 1971 and 1970, respectively, have been credited to the general fund balance and are not included in the statement of income.



Produced by Victor Weingarten Company, Inc.





At 535 East 70th Street, New York, New York 10021

A Voluntary Non-profit Hospital Devoted to Orthopedic Surgery and Rheumatic Diseases
Affiliated with: The New York Hospital and Cornell University Medical College